20000401.qrp v01_n778.qrl.20000401

Date: Sat, 1 Apr 2000 19:03:08 EST
From: qrp-l@Lehigh.EDU
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: QRP-L digest 1778

QRP-L Digest 1778

Topics covered in this issue include:

  1) [66950] New Zealand Call Signs
     by cd25d@rhapsodysails.com (Bill Slater)
  2) [66951] New Zealand Calls
     by cd25d@rhapsodysails.com (Bill Slater)
  3) [66952] Help with Norcal 40A
     by "W1AOK" <W1AOK@worldnet.att.net>
  4) [66953] Re: Cub (Drift) observation
     by "Dave Benson" <nn1g@earthlink.net>
  5) [66954] Re: Chuck Adams: QSL Get Well Cards and PSE QSL
     by Macstein@aol.com
  6) [66955] Re: Cub Drift
     by Ed Kessler <edkess@epix.net>
  7) [66956] Zombie Shuffle
     by "Sam Stimson" <n5wu@worldnet.att.net>
  8) [66957] Re: BOB - WA2HOQ
     by "The Weinsteins" <weinsteins@home.com>
  9) [66958] Operating:Just wondering...
     by "Dieter \(Diz\) Gentzow WB8QYY" <wb8qyy@cinci.rr.com>
 10) [66959] Drift
     by "James R. Duffey" <jamesd1@flash.net>
 11) [66960] Re: Operating:Just wondering...
     by "Sam Stimson" <n5wu@worldnet.att.net>
 12) [66961] Re: Operating:Just wondering...
     by "K7FD-N7SG" <cqdx@teleport.com>
 13) [66962] CQ ....Jim Stanford W4QO..!!
     by "Andy GM0NWI" <Gm0nwi@tesco.net>
 14) [66963] Appalachian Trail Alert for April 1st, 2000
     by "Ron Polityka" <wb3aal@talon.net>
 15) [66964] Re: Operating:Just wondering...
     by Dave Sjolin <sjolin@swbell.net>
 16) [66965] Re: Drift
     by "Dan W. Dooley" <dandooley@pipeline.com>
 17) [66966] CUB..results good
     by K4NK@aol.com
 18) [66967] PROP/SOLAR Update
     by "Paul Harden, NA5N" <na5n@rt66.com>
 19) [66968] ATTN Mark Milburn......

by "Andy GM0NWI" <Gm0nwi@tesco.net>
20) [66969] T2R2 on a chip
by "William B. Keane" <bkeane@mail1.nai.net>
21) [66970] Re: NC-20 Tune Pot
by Dave Fifield <fifield@pacbell.net>
22) [66971] Filter Help...
by "ukii" <ukii@megsinet.net>
23) [66972] Re: Operating:Just wondering...
by Bob Hightower <nk7m@extremezone.com>
24) [66973] Re: Drift
by "George T. Baker" <w5yr@att.net>
25) [66974] Re: Filter Help...
by Jay Freeman <jayFreem@direcpc.com>
26) [66975] Re: Operating:Just wondering...
by "Bob Tellefsen" <n6wg@earthlink.net>
27) [66976] beacon ops?
by "Michael Bower - N4NMR" <bowerm@ix.netcom.com>
28) [66977] Re: Operating:Just wondering...
by Dave Fifield <fifield@pacbell.net>
29) [66978] New Country?
by Dave Fifield <fifield@pacbell.net>
30) [66979] Re: Board Etching Techniques
by Bill Lazure <n2tpa@juno.com>
31) [66980] HB:Diode mixers
by oxf01@maxmail.co.uk
32) [66981] Re: HB:Diode mixers
by "Leon Heller" <leon_heller@hotmail.com>
33) [66982] SV: New Country?
by "Hans Sundstrom" <hans.sundstrom@telia.com>
34) [66983] Re: SV: New Country?
by Hank Kohl K8DD <k8dd@arrl.net>
35) [66984] Exclusive call
by "Hans Sundstrom" <hans.sundstrom@telia.com>
36) [66985] Re: Board Etching Techniques
by wb2vuo@juno.com
37) [66986] Re: SV: New Country?
by Shephed@aol.com
38) [66987] RE: ARRL Web Page Survey - QRP
by "Hare, Ed, W1RFI" <w1rfi@arrl.org>
39) [66988] Re: ARRL Web Page Survey - QRP
by "Rod, N0RC" <n0rc@qsl.net>
40) [66989] Re: Drift
by "James R. Duffey" <jamesd1@flash.net>
41) [66990] Re: beacon ops?
by "Steve Yates, AA5TB" <aa5tb@swbell.net>
42) [66991] RE: ARRL Web Page Survey - QRP
by "Hare, Ed, W1RFI" <w1rfi@arrl.org>
43) [66992] Re: beacon ops?

by Dave Sjolin <sjolin@swbell.net>
44) [66993] New Quark Based Devices Promises Lower Noise Receivers (long)
by "James R. Duffey" <jamesd1@flash.net>
45) [66994] Re: ARRL Web Page Survey - QRP
by "Rod, N0RC" <n0rc@qsl.net>
46) [66995] Re: Who has good enclosures for qrp stuff.
by Dennis Blanchard <jadepro@jadeprod.com>
47) [66996] Re: New Quark Based Devices Promises Lower Noise Receivers (long)
by "Steve Yates, AA5TB" <aa5tb@swbell.net>
48) [66997] Ref: K2 Upgrades
by Ed Loranger <we6w@qsl.net>
49) [66998] Re: ARRL Web Page Survey - QRP
by Tom Isgro <k8cz@concentric.net>
50) [66999] [FS]: FW: HW-9 for sale
by "Hare, Ed, W1RFI" <w1rfi@arrl.org>
51) [67000] Re: New Zealand Call Signs
by Tom Isgro <k8cz@concentric.net>
52) [67001] Re: Operating:Just wondering...
by Tom Isgro <k8cz@concentric.net>
53) [67002] PW-1 Antenna
by Daniel R Case <drcase@iastate.edu>
54) [67003] FS:AT-11 Antenna Tuner
by Bob Parks <rob3ert@thegrid.net>
55) [67004] HW-9 Power Connector (Jack)
by SMurph555@aol.com
56) [67005] HB: receiver happy dance
by Wa3ptg@aol.com
57) [67006] Re: PW-1 Antenna
by "Rod, N0RC" <n0rc@qsl.net>
58) [67007] FS: AT-11
by Bob Parks <rob3ert@thegrid.net>
59) [67008] Re: beacon ops?
by "Michael Bower - N4NMR" <bowerm@ix.netcom.com>
60) [67009] FS: Rotary step attenuators, 0 to 10 dB
by Mike Czuhajewski <wa8mcq@erols.com>
61) [67010] TiCK Keyer and PK-2
by "Michael Bower - N4NMR" <bowerm@ix.netcom.com>
62) [67011] Re: New Quark Based Devices Promises Lower Noise Receivers (long)
by Nv4t@aol.com
63) [67012] FS:Johnson Viking Matchbox
by Bruce Rattray <rattray@neale.gpfn.sk.ca>
64) [67013] Re: PW-1 Antenna
by Barry J Minsky <w2bj@juno.com>
65) [67014] FS: Johnson Matchbox
by Bruce Rattray <rattray@neale.gpfn.sk.ca>
66) [67015] Cajun MoJo
by hamjoel@juno.com
67) [67016] Re: Zombie Shuffle

    by "Paul Harden, NA5N" <na5n@rt66.com>
 68) [67017] Heathkit HW 8 Help
    by NM5Mike@aol.com
 69) [67018] Re: PW-1 Antenna
    by Dean W Manley <kh6b@juno.com>
 70) [67019] Re: NC-20 Tune Pot
    by "John J. McDonough" <wb8rcr@arrl.net>
 71) [67020] Re: Ref: K2 Upgrades
    by Ed Loranger <we6w@qsl.net>
 72) [67021] kester #104 flux solvent
    by "Terres Family" <terresfm@ncia.net>
 73) [67022] QRPTTF: 29APRIL, nothing else
    by "Paul Harden, NA5N" <na5n@rt66.com>
 74) [67023] Re: PW-1 Antenna
    by Barry J Minsky <w2bj@juno.com>
 75) [67024] Items for sale
    by K4NK@aol.com
 76) [67025] Re: T2R2 on a chip
    by "laura halliday" <marsgal42@hotmail.com>
 77) [67026] New Elecraft EC2 Enclosure Pictures
    by Eric Swartz WA6HHQ - Elecraft <eric@elecraft.com>
 78) [67027] CONTEST: Postal Surprise
    by n5ib@juno.com
 79) [67028] Re: PW-1 Antenna
    by "Rod, N0RC" <n0rc@qsl.net>

Date: Fri, 31 Mar 2000 18:23:44 -0600
From: cd25d@rhapsodysails.com (Bill Slater)
To: "qrp-l" <qrp-l@Lehigh.EDU>
Subject: [66950] New Zealand Call Signs
Message-ID: <001101bf9b70$8a685900$5276130c@willies>
MIME-Version: 1.0
Content-Type: text/plain;
    charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I was listening and thought I got a New Zealand call sign but could never
get the prefix correct....

My book doesnt show new zealand, can anyone tell me what their prefix is?
72
kd5gcx
Bill
S/V Rhapsody
http://www.rhapsodysails.com/sailing.html

Date: Fri, 31 Mar 2000 19:31:02 -0600
From: cd25d@rhapsodysails.com (Bill Slater)
To: "qrp-l" <qrp-l@Lehigh.EDU>
Subject: [66951] New Zealand Calls
Message-ID: <003b01bf9b79$f12efdc0$5276130c@willies>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Tnx to all who responded.

I know the call was ??2CLI and the ops name was Eric QTH Wellington. I tried several combinations on the QRZ call sign and it wouldnt pull it up. Anyway, thanks for all the responses.

72s
Bill
KD5GCX
S/V Rhapsody
http://www.rhapsodysails.com/sailing.html

Date: Fri, 31 Mar 2000 19:33:17 -0500
From: "W1AOK" <W1AOK@worldnet.att.net>
To: <qrp-l@Lehigh.EDU>
Subject: [66952] Help with Norcal 40A
Message-ID: <010d01bf9b71$e384bc80$a4d24f0c@main>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="x-user-defined"
Content-Transfer-Encoding: 7bit

Hello Everyone,

I found a very nicely built NorCal 40A for sale and decided that it was time to try out QRP. The NorCal 40A is a wonderful rig and I was very impressed with it's performance... at first. In my first 10 contacts, I worked Austria, Russia and France using a a dipole at 45 feet. I was thrilled. I could tell that QRP was going to be a hoot but then...

The receiver has become extremely noisy. Noise, sounding exactly

like summer atmospheric noise, complete with occasional crashes, builds up slowly over a couple of minutes and buries the desired signals such that the receiver becomes unusable within a couple of minutes of operation. Here's the catch... momentarily turning of the power restores the receiver to it's normal, wonderfully quiet operation. The noise then immediately starts building again rendering the receiver useless in another minute or so. The rig is well grounded and I've tried battery power to no avail.

Can anyone give me any suggestions? I'd be grateful for at least 7 weeks, maybe longer.

Thanks,

Denis Sharon W1AOK
Ridgefield, CT

Date: Fri, 31 Mar 2000 20:28:12 -0800
From: "Dave Benson" <nn1g@earthlink.net>
To: "Steven Weber" <kd1jv@moose.ncia.net>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [66953] Re: Cub (Drift) observation
Message-ID: <003501bf9b92$dd2e6900$1269173f@pavilion>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

(Steve Weber writes-)
.....
>>I belive you (or someone) mensioned that the VFO in the CUB uses the internal osc section of the NE602. ......

>>If you look at the NE4040 or SWL SW+, you'll see that Dave used an external VFO, dispite the fact these are very minumalistic and low current designs. You can be sure he did this for a very good reason, the internal osc of the NE602 just doesn't cut it....<<

Steve-

I didn't get far enough with that configuration to be testing it for drift. The wrapped-around signal from the transmitter, back through the T-R switch and into that same '602, caused LO pulling due to coupling. That seemed like

'one shortcut too many' with an L/C local oscillator, and I dropped the scheme right there.

73- Dave, NN1G

Date: Fri, 31 Mar 2000 20:52:06 EST
From: Macstein@aol.com
To: w5jay@alltel.net, qrp-l@lehigh.edu
Subject: [66954] Re: Chuck Adams: QSL Get Well Cards and PSE QSL
Message-ID: <99.308e879.2616b046@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

In a message dated 03/31/100 3:28:57 PM EST, w5jay@alltel.net writes:

> Gang, in the mail yesterday I got a letter from "guess who?" Chuck, K7QO!
> I thought to myself, "what's this?", because Chuck is in the hospital. I
> open up the envelope and in it was a QSL that Chuck must had filled out
> before he left for hospital in Big D.

DITTO! I got both the coveted K5FO and the "new" K7QO in the same envelope! He must have gotten caught up before going in! The K5FO card was from when I caught him test driving the DSW40 prototype - neat!   I think the 20 meter contact was my initail QSO with the NC20 club rig. THANKS OM and get well!

72
-MAC-
AF4PS

Date: Fri, 31 Mar 2000 20:54:19 -0500
From: Ed Kessler <edkess@epix.net>
To: qrp-l@Lehigh.EDU
Subject: [66955] Re: Cub Drift
Message-ID: <38E556CB.24A5CD47@epix.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I can't say that I have completely solved the problem, but I replaced the supplied capacitors in the VFO circuit with known NPOs. The VFO in my 15m Cub does seem more stable now. (Thanks to Charlie Fitts, N1EI, for that idea). If that doesn't solve things, I'm next going to replace the VFO inductor tuning can with a toroid. The tuning can is very touchy and I believe that it could be a source of drifting during temp. changes. (Thanks to my friend/elmer, W3TS, for this idea).

Anyhow, while not completely satisfied with the Cub, I have managed to work 6 DX countries running 1.25 watts into a dipole. Not too bad.

73s Ed AA3SJ

Date: Fri, 31 Mar 2000 19:58:38 -0600
From: "Sam Stimson" <n5wu@worldnet.att.net>
To: <qrp-l@Lehigh.EDU>
Subject: [66956] Zombie Shuffle
Message-ID: <005301bf9b7d$ccf52b60$40384a0c@211172425>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Anyone hear anymore about the Zombie Shuffle Pins and Certificates? Just interested....

Sam
N5WU

Date: Fri, 31 Mar 2000 21:15:57 -0500
From: "The Weinsteins" <weinsteins@home.com>
To: <w2bj@juno.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [66957] Re: BOB - WA2HOQ
Message-ID: <00ca01bf9b80$384924a0$ba3b2a18@ym1.on.wave.home.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Barry and the Gang:

Bob wrote earlier this week to say that the doctors were still testing to find the exact nature of his complaint. I'm sure he would appreciate a get-well-soon message, either on list or at mailto:RangerSF5@aol.com

Al, VE3HVX

Date: Fri, 31 Mar 2000 21:18:46 -0500
From: "Dieter \(Diz\) Gentzow WB8QYY" <wb8qyy@cinci.rr.com>
To: "QRP-L" <qrp-l@lehigh.edu>
Subject: [66958] Operating:Just wondering...
Message-ID: <003401bf9b80$9c1defb0$94171d18@cinci.rr.com>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="Windows-1252"
Content-Transfer-Encoding: 7bit

Hi everyone,

Got a question that's bugged me for 27 years as a ham: How is it possible to run split, xmit on one freq and receive on another and at the same time consider yourself a courteous operator? I mean you have no idea who you might be transmitting on top of. Anybody have a "GOOD" answer?

TNX

73 & "oo's" - Dieter (DIZ) Gentzow - WB8QYY
Loveland, Ohio (Clermont County - EM79ug) - near Cincinnati; 39.218N - 84.305W
FPqrp#-1 SOC#8 DL-QRP-AG#1454 ARCI#10226 QRP-L#1998 10-X#9389 CATT#26 K2#493
http://home.cinci.rr.com/wb8qyy [AOL-IM "wb8qyy"]

Date: Fri, 31 Mar 2000 19:24:41 -0700
From: "James R. Duffey" <jamesd1@flash.net>
To: "qrp-l" <qrp-l@lehigh.edu>
Subject: [66959] Drift
Message-ID: <200004010224.UAA01945@chupacabras.flash.net>
Mime-version: 1.0
Content-type: text/plain; charset="US-ASCII"

Content-transfer-encoding: 7bit

All - I suppose that drift is relative.

I think that the solid state rigs these days are pretty good. Compared to my old glass based recievers, the new rigs are pretty good, even drfters like the CUB.

My Ham radio days date back to vacuum tube (hollow state) equipment. Those rigs drifted terribly at startup. I used to turn on my the Ranger II and Hammarlund 110A, go to supper for a half hour and come back to more or less stable rigs. Initial drift of 5 or more kHz was not unusual. The introduction of solid state VFOs was a very significant milestone in Ham radio equipment and made "instant operation" possible.

I now have a 1958 era HQ-170. It is a superb receiver and I love it. However it drifts about 5 kHz on start up. I need to wait 45 minutes before it settles down. In an attempt to reduce the drift in the subsequent HQ-170A the filament in the VFO tube was left on all the time. This provided a great deal of thermal inertia and reduced the drift significantly.

It amazes me that we now consider excessive, drift that 30 years ago would have been thought to be excellent! - Dr. Megacycle KK6MC/5

James R. Duffey KK6MC/5
30 Casa Loma Road
Cedar Crest, NM 87008

Date: Fri, 31 Mar 2000 20:25:03 -0600
From: "Sam Stimson" <n5wu@worldnet.att.net>
To: <wb8qyy@cinci.rr.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [66960] Re: Operating:Just wondering...
Message-ID: <008d01bf9b81$7e01d900$40384a0c@211172425>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="Windows-1252"
Content-Transfer-Encoding: 7bit

Usually, you verify your Xmit frequency and then pick a Recv freq. Of course it helps a lot if you have dual receivers......

Sam
N5WU

----- Original Message -----

From: Dieter (Diz) Gentzow WB8QYY <wb8qyy@cinci.rr.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Sent: Friday, March 31, 2000 8:18 PM
Subject: Operating:Just wondering...

> Hi everyone,
>
> Got a question that's bugged me for 27 years as a ham: How is it possible
> to run split, xmit on one freq and receive on another and at the same time
> consider yourself a courteous operator? I mean you have no idea who you
> might be transmitting on top of. Anybody have a "GOOD" answer?
>
> TNX
>
> 73 & "oo's" - Dieter (DIZ) Gentzow - WB8QYY
> Loveland, Ohio (Clermont County - EM79ug) - near Cincinnati; 39.218N -
> 84.305W
> FPqrp#-1 SOC#8 DL-QRP-AG#1454 ARCI#10226 QRP-L#1998 10-X#9389 CATT#26
K2#493
> http://home.cinci.rr.com/wb8qyy [AOL-IM "wb8qyy"]
>
>

Date: Fri, 31 Mar 2000 18:24:39 -0800
From: "K7FD-N7SG" <cqdx@teleport.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [66961] Re: Operating:Just wondering...
Message-ID: <002801bf9b81$6f9fe6e0$a9231ad8@default>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="Windows-1252"
Content-Transfer-Encoding: 7bit

Easy, I run dualwatch on the IC-756 or IC-775DSP. Piece of cake to monitor
both freq's at once.

73 John K7FD

>Hi everyone,
>
>Got a question that's bugged me for 27 years as a ham: How is it possible
>to run split, xmit on one freq and receive on another and at the same time
>consider yourself a courteous operator? I mean you have no idea who you

>might be transmitting on top of. Anybody have a "GOOD" answer?
>
>TNX
>
>73 & "oo's" - Dieter (DIZ) Gentzow - WB8QYY

Date: Sat, 1 Apr 2000 03:53:29 +0100
From: "Andy GM0NWI" <Gm0nwi@tesco.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [66962] CQ ....Jim Stanford W4QO..!!
Message-ID: <002301bf9b85$7651ef20$79528cd4@q1n3l2>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi Guy`s...

Just want to see if I can raise a reply from Jim...or anyone
else that knows his wereabouts....

Send him an` e-mail regarding his club publication..

As yet no avail..

72 de Andy   gm0nwi@tesco.net

Date: Fri, 31 Mar 2000 21:57:48 -0500
From: "Ron Polityka" <wb3aal@talon.net>
To: ". QRP-L" <qrp-l@Lehigh.EDU>
Subject: [66963] Appalachian Trail Alert for April 1st, 2000
Message-ID: <007101bf9b86$10f248e0$66e508cf@wb3aal>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

No Fooling,

 N2BSC & WB3AAL are heading up to Pulpit Rock on the

Appalachian Trail in Berks County, PA.

We should be on the air by 10 AM EST.

Look for WB3AAL starting off on 3.560, 7.040, 21.060 &
28.060

I will be changing bands when the QSO are slow. If the QSO
rate is fast I will keep it brief to make as many Q's as possible.
Then I will change bands every hour.

Look for N2BSC on 14.060. Len is working the 20 meter band only.

72 & 73
Good DXing

Ron Polityka
de WB3AAL
wb3aal@talon.net

vvv Eastern Pennsylvania QRP Web Page vvv
http://www.n3epa.org
Eastern Pennsylvania QRP Club Call
N3EPA E-mail address: n3epa@talon.net

EPA QRP #1 NJ QRP #179
KL7 QRP # 309 G-QRP # 3031
ARCI QRP # 5318 10 - X #13173
NorCal Zombie #625
ARS # 380 HI-QRP #153
VA QRP Society

Date: Fri, 31 Mar 2000 21:05:09 -0600
From: Dave Sjolin <sjolin@swbell.net>
To: wb8qyy@cinci.rr.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [66964] Re: Operating:Just wondering...
Message-ID: <38E56765.FE7FF5C4@swbell.net>
MIME-version: 1.0
Content-type: text/plain; charset=us-ascii
Content-transfer-encoding: 7bit

"Dieter (Diz) Gentzow WB8QYY" wrote:

> Got a question that's bugged me for 27 years as a ham: How is it possible
> to run split, xmit on one freq and receive on another and at the same time
> consider yourself a courteous operator? I mean you have no idea who you
> might be transmitting on top of. Anybody have a "GOOD" answer?

Most modern transceivers have a XIT button which allows you to change
your transmit frequency while continuing to monitor the dx frequency.
All I have to do is temporarily hold down another button and I can
listen to my transmit frequncy before transmitting. As soon as I release
this button my receiver is back on the Dx stations frequency.

Matter of fact in a pileup I use the XIT button to allow me to listen up
frequnecy from the dx to find how where he is listening. Once I hear the
station he is working, I can release the one button and return to the dx
frequency knowing that I stand a good chance of working the DX next.

73 de Dave, N0IT

Date: Fri, 31 Mar 2000 21:06:36 -0600
From: "Dan W. Dooley" <dandooley@pipeline.com>
To: <jamesd1@flash.net>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [66965] Re: Drift
Message-ID: <002c01bf9b87$4d557680$05987b7b@CSS0048.bergenbrunswig.com>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Oh not quite instant. Real close though. Some rigs becoming hybrids, using
both tubes and transistors such as my Drake B line, did run real stable
solid state VFOs, but still had tube RF, IF and audio stages for instance.
Guess I should say still does. It's still in use here.

Dan W. Dooley WB5TKA Bedford, Texas EM12ku
    e-mail to: dandooley@pipeline.com
May Goddes love blest ye alle
SOC#198
"Ancient Pistol, I do partly understand your meaning."

-----Original Message-----
From: James R. Duffey <jamesd1@flash.net>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Date: Friday, March 31, 2000 8:26 PM
Subject: Drift

>unusual. The introduction of solid state VFOs was a very significant
>milestone in Ham radio equipment and made "instant operation" possible.
>

Date: Fri, 31 Mar 2000 22:26:22 EST
From: K4NK@aol.com
To: qrp-l@lehigh.edu
Subject: [66966] CUB..results good
Message-ID: <6f.30a44e0.2616c65e@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Hello Gang;
     I finished up my cub tonight. I opted for the 30 meter version. no problems were encountered in construction except the missing c52 cap. My unit runs just over 2 watts out with original final and seems very stable. I took extra care soldering the grounds etc. . I have had a couple of Qso's (both with qrp stations) and the little guy works fine. I do think it could recover a little quicker from tx , and I put a CW audio filter on the audio and found that really helped.

Les Shattuck K4NK

ARRL Vice Director Roanoke Division

Date: Fri, 31 Mar 2000 20:32:09 -0700 (MST)
From: "Paul Harden, NA5N" <na5n@rt66.com>
To: qrp-l@lehigh.edu
Subject: [66967] PROP/SOLAR Update
Message-ID: <Pine.SUN.4.10.10003311952460.6516-100000@shell.rt66.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Gang,
I haven't posted much on the sun lately because things have been pretty nice for many weeks. But figured I should do an update anyway for those of you who have lost track of where we are.

As you know, the solar flux goes up and down, making a sine-wave, every 28 days (approximately). Propagation is good when we are around the peak solar flux, which lately is with the solar flux above 200, and propagation is not so good when we are at the 28-day minimum, which has been a solar flux around 150.

For example, the 28-day solar fluxes (fluxii?) for 2000 have been:

MINIMUMS		MAXIMUMS		
Jan. 1	130	Jan.15	211	
Jan.28	128	Feb. 9	199	<--- this peak didn't even make 200!
Feb.18	141	Mar. 7	222	
Mar.15	179	Mar.22	234	<--- may not be final 28-day peak

After Mar. 22, the solar flux has been dropping towards it's minimum again, BUT a bunch of solar activity past few days has caused the solar flux to suddenly go back up ... reaching 225 again today (friday 3-31). In mid-March, the solar flux MINIMUM was ONLY under 200 for 6 days.

SO WHAT'S ALL THIS MEAN? It means, if you plot the 28-day solar flux, it goes up and down, BUT it is still on an upward ramp. Pretty soon, even the MINIMUM solar flux will be above 200, meaning excellent propagation on 15-10M every single day during daylight hours (and well after sundown on 15M). It also means, contrary to some reports on a few ham radio web pages, this solar cycle is NOT at it's maximum yet or very mushy compared to other solar cycles. Solar flux levels are a bit below a couple of selected solar cycles in the past few decades, but not all that far off from the typical (long term average) behavior of the sun. Besides, once solar flux is in the 200's, little further improvement to 10 and 15M propagation can be expected EXCEPT for less attenuation and experiencing multiple-hops. This is where your signal bounces off the E/F layer back to earth, then back up to the E/F layer, then back to earth, etc. many times. Under unusual conditions, you can even hear your own signal coming back to you with about a 1/2 second or more delay!

The point is ... conditions have been good for well over a month with the average solar flux still continuing to climb. The higher bands, 20M and above, should continue to be "hot" on a daily basis.

I listen to 10M and hear it hopping at times, dead other times. This is a bit unusual from past solar cycles I remember, but *I THINK* the problem is just a simple lack of activity rather than propagation conditions.

On the lower bands (10M and below), conditions are more dictated by the geomagnetic field, which has also been fairly quiet. Well, at least until the past couple of days, where enhanced solar wind speed from one of those

pesty coronal holes is bothering us, but only producting ACTIVE conditions. For those of us who work 40M CW at night, I challenge you to describe the difference on 40M between QUIET, UNSETTLED or ACTIVE conditions -hi. For that matter, even a MINOR storm is barely noticeable compared to the ambient noise level we're used to.

Plenty of solar activity today, which is annotated below for those wishing a little explanation of the daily RSGA reports.

72, Paul NA5N
National Radio Astronomy Observatory
Socorro, New Mexico

(Although this solar information is my own interpretation to share with those interested and is not an official opinion of the observatory).

> JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
> SDF NUMBER 091 ISSUED AT 2200Z ON 31 MAR 2000

> IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 30/2100Z
> TO 31/2100Z: SOLAR ACTIVITY BECAME HIGH DUE TO THE LARGE NUMBER OF
> M-CLASS EVENTS THAT OCCURRED. MULTIPLE REGIONS WERE RESPONSIBLE FOR
> THIS INCREASE IN ACTIVITY.

Normally, HIGH activity is reserved for an X-class flare. But today's numerous M-class flares rose the solar flux from thursday's 206 to friday's 225. That is sufficient to call it HIGH!

> IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD REMAIN AT A
> MODERATE LEVEL FOR THE NEXT SEVERAL DAYS.

> IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 30/2100Z TO 31/2100Z:
> THE GEOMAGNETIC FIELD WAS PREDOMINANTLY UNSETTLED TO ACTIVE. ISOLATED
> MINOR STORMING WAS ALSO OBSERVED. THE SOURCE OF THIS DISTURBANCE IS
> UNKNOWN. SOLAR WIND PARAMETERS WERE REASONABLY BENIGN EXCEPT FOR
> SOME PERIODS OF NEGATIVE BZ AND THE PASSAGE OF A SECTOR BOUNDARY
> DURING THE PERIOD.

SECTOR BOUNDRY: If you could see the solar wind being pushed out from the sun, it would look like a platter extending out from the sun's magnetic equator. At least this is what early models pictured it to be. Now we know this "platter" is not perfectly flat. In fact, it looks more like the sun wearing a ballerina's skirt (a "tutu") with large ruffles. As the earth goes around the sun, we pass into, and later pass out of these "ruffles." As we do, the solar wind density and direction can suddenly change (not huge, but enough to cause minor magnetic disturbances). Passing through one of these barriers, or ruffles, is known as a sector boundry. They occur several times throughout the year, and tend to

occur about the same time every year.

Today's sudden change to negative BZ (the solar winds magnetic field turning southward), plus about now is when a sector boundry is expected, is what made NOAA more or less declare the magnetic disturbance as a sector boundry crossing.

> IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD SHOULD
> BECOME QUIET TO UNSETTLED FOR THE NEXT THREE DAYS. ISOLATED ACTIVE
> CONDITIONS COULD BE EXPERIENCED EARLY ON 01 APR AND AGAIN ON 03 APR.
> THERE IS A POSSIBILITY OF A SOLAR PROTON EVENT DURING THE NEXT THREE
> DAYS.

If there is a major flare over the next three days (as forecasted above by NOAA), if strong enough, it would release protons. This is referred to as a proton flare. Protons are the result of very high energetic activity on the sun, travel quite quickly towards the earth, and can cause damage to satellites. They can also produce spectacular auroral activity and polar cap absorption events. (PCA)

> PCAF   GREEN

But for now, a PCA is not in effect. (Green)

> IV. PENTICTON 10.7 CM FLUX
> OBSERVED   31 MAR 225 <----- today's solar flux
> PREDICTED   01 APR-03 APR 225/225/223 <--- this weekend's
> 90 DAY MEAN   31 MAR 181

> V. GEOMAGNETIC A INDICES
> OBSERVED AFR/AP 30 MAR 008/010
> ESTIMATED AFR/AP 31 MAR 015/020 <--- due to today's sector boundry
                                        crossing; brief minor storming
> PREDICTED AFR/AP 01 APR-03 APR 010/012-008/010-010/015

Date: Sat, 1 Apr 2000 04:40:57 +0100
From: "Andy GM0NWI" <Gm0nwi@tesco.net>
To: <qrp-l@lehigh.edu>
Subject: [66968] ATTN Mark Milburn......
Message-ID: <001701bf9b8c$1806f8a0$831dac3e@q1n3l2>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

Mark.....

It`s early here at the moment in the UK.... and beleive it or not
I`m just about to go out on a trip with a friend who starts work
early...

But below is the info... that I was needin` Jim to refer to if he had
time...it`s self explanitory so won`t need to go into it for you...
but if you CAN deal with it I`d much abliged and possibly you
could e-mail me with the answer and any thoughts you may have...

Must dash for now..

----- Original Message -----
From: Andy GM0NWI <Gm0nwi@tesco.net>
To: <w4qo@amsat.org>
Sent: Tuesday, March 28, 2000 8:14 PM
Subject: Can You Help....?

Jim...

Don`t know if you remember who I am but..? Let me introduce
myself again to you.... my name is Andy Cunningham.... ham call
is GM0NWI/qrp...and the home QTH here is the town of Stirling
in central GM-land, 26 miles from Edinburgh...and have been a
ham for 10 years now.... Infact we have had communication before,
regarding when I tried to make available some "ZIP`s" available
to people that wanted them, via a "psotin" on the QRP-L, that was
files of the 2 books by Fred Bonavita, and Mike Bryce... "The
Hot Water Handbooks" Vol 1 and 2... unfortunatley then this was`nt
to be due to the interference of "jealous" `net police` on both sides
of the pond....Infact Mike WA8MCQ, did some searchin` for me
on the thoughts of most folks as regard to this and the copyright...
Think infact you were indeed one of the people he approached..

Any way he found that there was`nt really a problem and that I should have
gone ahead and "done the deed"..... well I might just still do that
VERY shortly..... keep you posted

That however is NOT the reason for contacting you today Jim....
The story here is ..... I am currently searchin` for a book on ham
radio antenna`s by the late and great W1FB Doug DeMaw....
I like many other`s are a great fan of his writin`s...I have all of the
"QRP Notebooks" including the successor of the book I am looking

for "The W1FB`s Antenna Notebook", ARRL publication (yellow cover)..
I already have this book edition Jim....

What I was wondering if you could do for me, even although I am not
a memeber of you`re club as yet.... is whether if I explain below what I
have
been doin` lately, as to wether you could get one of you`re Office Bear`ers
to see that I have a small mention in the next publication of you`re Qrp
Journal....??

Wonder if that would at all be possible Jim.....

The book I am tryin` to locate is an "out-of-print" ARRL publication By
W1FB Doug DeMaw.... from either early 88`/89` and was stopped in
publication in 91`/92` as far as I know and is the first edition of the set
of books with the same name..... The book I am lookin` for is ...

"W1FB`s "Novice" Antenna Notebook"..... which is NOT the same
book as I already own.... I have seen a picture of this book in an old
QST of 91`/92` vintage that I have...it is in the picture, a WHITE covered
book, with the Title heading in RED print and it has a Sub-Heading
that reads "New Idea`s For Beginning Ham`s".... and was No. 3088,
order no. from the ARRL back then... It sold for $10 price tag then
also...

A long shot perhap`s ......both from the aspect of gettin` a mention in
you`re journal and in the actual getting of the book....

I have been tryin` all the usual place`s on the `net` ..Amazon.. etc and
the usual `net` second-hand bookstores.... ....to no avail...

Would love to get a copy of this one Jim...

Wonder if you could "pull some string`s" for me, and possibly let me
know how you are/got on...

Keep up the great work friend.... and once I find someone that can send
me info on the club and the contents on you`re journal ....who know`s then
I probably would be persuaded to join what is well known as one of the
best respected club`s on "QRP Planet"....

72s de Andy gm0nwi@tesco.net

Date: Fri, 31 Mar 2000 23:12:13 -0500
From: "William B. Keane" <bkeane@mail1.nai.net>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [66969] T2R2 on a chip
Message-ID: <38E5771D.BB00E33F@mail1.nai.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Has anyone seen or touched the new chip AD6523/4 from Analog Devices?
The chip is designed for use in the GSM cell phone service; and looks
just like the block diagram of the T2R2. Is it possible to run a
device
of this type in the HF band.

72, Bill N1NIK CT

Date: Fri, 31 Mar 2000 20:26:17 -0800
From: Dave Fifield <fifield@pacbell.net>
To: wb8rcr@arrl.net, Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [66970] Re: NC-20 Tune Pot
Message-ID: <007a01bf9b92$6c54f1e0$0100a8c0@pacbell.net>
MIME-version: 1.0
Content-type: text/plain; charset="iso-8859-1"
Content-transfer-encoding: 7bit

John,

The NorCal QRP Club NC20 kit Construction Manual contains specific
information about which 10 turn pots will fit and should be used. Sorry
to hear you were sidetracked into thinking your old junk-box pot would
work. When the kit came out, there was a group buy to get the proper
pots at a discounted price, most people bought one of these - you are
the first I have ever heard about that had any problem with it.

Good luck with the rest of the build-up. Don't forget the mods - there
are some on the Red Hot Radio website (http://www.redhotradio.com)
and some others pointed to from there.

Cheers es 72,
Dave Fifield, AD6A

----- Original Message -----
From: John J. McDonough <wb8rcr@arrl.net>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Sent: Friday, March 31, 2000 1:22 PM
Subject: NC-20 Tune Pot

snip
> Anyway, the radio comes with a 270 degree tuning pot, and a pile of holes
> and jumpers and such to use a ten turn pot. It so happens that I had a
> Bournes 3590, which looks to be pretty similar to the 3540 which is among
> the types of pot they apparently tried. (Actually, when I looked a little
> closer at the drawings for a 3540 while writing this, it appears that
there
> is no way that thing would fit - but oh well).
>
> Well, there are all sorts of instructions about drilling out the panel,
> clipping off tabs, etc. and when all this is done, the lugs for the 3590
> line up exactly with the holes in the board for a ten turn pot. So in it
> goes, but I was a little surprised by the traces beneath the pot. Lugs 2
> and 3 were connected together, and the schameatic didn't seem to indicate
> this was the case. Well, I reread the manual a half-dozen times looking
for
> clues and found none. Shrug ... back to melting solder.
snip

Date: Fri, 31 Mar 2000 22:40:02 -0600
From: "ukii" <ukii@megsinet.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [66971] Filter Help...
Message-ID: <04ae01bf9b94$60aed980$e91128d0@ukii>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hello Gang
One of my main rigs is an Icom 735. Its an older radio but
works well. Anyway,I recently found a FL-500 (or something)
CW Filter for it. Now the problem...
I installed the filter in the correct spot,according to the instructions.
I put the icom 735 into CW MODE,then
tune to a cw signal and when I hit the switch and turn ON
the filter,I hear the CW even Better? It seems when the filter
is ON,the CW sound pops out more.I actually hear the tone

better with the filter on. Please,what did I do wrong?
Maybe I installed the filter backwards?
I cant see spending 50 bucks for a filter and then
it doesn't work right...
ANY help would be greatly appreciated...
73 de john
n9ukx

Date: Fri, 31 Mar 2000 21:45:47 -0700
From: Bob Hightower <nk7m@extremezone.com>
To: wb8qyy@cinci.rr.com
Cc: qrp-l@lehigh.edu
Subject: [66972] Re: Operating:Just wondering...
Message-ID: <200004010444.VAA19627@enterprise.extremezone.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable

At 09:18 PM 3/31/2000 -0500, you wrote:=20
>
> Hi everyone,
>
> Got a question that's bugged me for 27 years as a ham:=A0 How is it=
 possible
> to run split, xmit on one freq and receive on another and at the same time
> consider yourself a courteous operator?=A0 I mean you have no idea who you
> might be transmitting on top of.=A0 Anybody have a "GOOD" answer?

Don't know about a 'good' answer, but there is no real reason to run split
unless you are working a DX station who is listening off his xmit freq, or=
 you
are a 'rare' station doing same. In this situation, courtesy seems to go out
the window, anyway :^).=20

Satellite ops are another question altogether.

Bob Hightower NK7M
Chandler, AZ
SOC #20

http://www.extremezone.com/~nk7m

Date: Fri, 31 Mar 2000 23:03:55 -0600
From: "George T. Baker" <w5yr@att.net>
To: jamesd1@flash.net
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [66973] Re: Drift
Message-ID: <38E5833B.6A2D6328@att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

So true, Jim. I leave my Kachina on 24/7 and it usually checks to be
within 2 Hz to 3 Hz of WWV at 10 MHz. I use it to calibrate my station
frequency counter. I remember my first "real" top-line radio: the
HRO-5TA1, the one with the Noise Limiter, in 1947. It stayed on almost
all of every day so drift was not all that much a problem. But on a cold
start of a morning, you could count on an hour of a "slippery dial." But,
oh, what that crystal filter could do on CW . . .

72/73, George
Fairview, TX   30 mi NE Dallas in Collin county
Amateur Radio W5YR, in the 54th year and it just keeps getting better!
R/C since 1964 - AMA 98452   RVing since 1972   Kachina #91900556

"James R. Duffey" wrote:

> I think that the solid state rigs these days are pretty good. Compared
> to my old glass based recievers, the new rigs are pretty good, even
> drfters like the CUB.

Date: Fri, 31 Mar 2000 23:46:19 -0600
From: Jay Freeman <jayFreem@direcpc.com>
To: ukii@megsinet.net, Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [66974] Re: Filter Help...
Message-ID: <38E58D2B.281E5FB3@direcpc.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

ukii wrote:

> Hello Gang

> One of my main rigs is an Icom 735. Its an older radio but
> works well. Anyway,I recently found a FL-500 (or something)
> CW Filter for it. Now the problem...
> I installed the filter in the correct spot,according to the instructions.
> I put the icom 735 into CW MODE,then
> tune to a cw signal and when I hit the switch and turn ON
> the filter,I hear the CW even Better? It seems when the filter
> is ON,the CW sound pops out more.I actually hear the tone
> better with the filter on. Please,what did I do wrong?
> Maybe I installed the filter backwards?
> I cant see spending 50 bucks for a filter and then
> it doesn't work right...
> ANY help would be greatly appreciated...
> 73 de john
> n9ukx

You sent this a day early :)

--
--
* Jay Freeman - WT9S   ARRL *
* G-QRP 10319 QRP-ARCI 9981 ARS 562   *
* SASS #18700   NRA Life *
--

Date: Fri, 31 Mar 2000 22:07:26 -0800
From: "Bob Tellefsen" <n6wg@earthlink.net>
To: <qrp-l@Lehigh.EDU>
Subject: [66975] Re: Operating:Just wondering...
Message-ID: <01bf9ba0$8e6d65b0$4adbfc9e@ham.earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Dieter
I have one good explanation for you. Once I get a call from another station, we usually turn out to be using different sidetone frequencies and offsets. I let my TX freq remain where it is, and turn on split to let my receiver move around as needed to keep the other station tuned in. This way, my tuning around doesn't move my TX signal from where he expects to find it on my next TX turn. Using split instead of RIT allows more movement when following a station with a drifting rig.
72, Bob N6WG

Date: Sat, 1 Apr 2000 04:31:01 -0500
From: "Michael Bower - N4NMR" <bowerm@ix.netcom.com>
To: "qrp-l" <qrp-l@lehigh.edu>, <NoVaQRP@topica.com>
Subject: [66976] beacon ops?
Message-ID: <075a01bf9bbd$1516c040$0100a8c0@dadsmachine>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

If my actions go as planned (which they seldom do<grin>), I would like to put up a beacon sometime late today or tomorrow, both during the day and at night. Here's the pertinent detail and some questions:

Details:

Band - 40 meter NOVICE band

Ant - either hamsticks dipole or long wire, both through a tuner

Rig - DSW40 - about 2 watts out

When I bring up the beacon (or before) I will announce here.

Questions:

What is the suggested, recommended or required frequency?

What should be in the message? (This message will be stored in memory of a TiCK 4 keyer.)

How long should I operate the beacon?

Are there restrictions on beacons that I should be aware of? (I'm a tech plus.)

TIA

Michael - N4NMR

Date: Sat, 01 Apr 2000 02:19:12 -0800
From: Dave Fifield <fifield@pacbell.net>
To: nk7m@extremezone.com, Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [66977] Re: Operating:Just wondering...
Message-ID: <002601bf9bc3$ba763420$0100a8c0@pacbell.net>
MIME-version: 1.0
Content-type: text/plain; charset="iso-8859-1"
Content-transfer-encoding: 7bit

Using a big rig like the TS-950SDX or FT-1000MP you simply use the
second receiver to listen on your transmit split frequency. I usually
take the time to listen before going blindly ahead and calling the DX,
since, although the DX station may think the frequency is clear, back
in the good old USofA it may not be. That being said, I don't think I have
ever had to NOT call a DX station because the split frequency was in
use, even so, I still listen before going ahead.

Even without a second RX, with rigs like the K2, you could use the
B VFO to RX first, then swap to split before going ahead - it's a few
more key strokes, but not a big drain on time. I haven't used my K2
split yet, so I'm not sure how ergonomic the key presses would be.
Anyone tried this?

Cheers es 72,
Dave Fifield, AD6A

----- Original Message -----
(snip)
> > Got a question that's bugged me for 27 years as a ham: How is it
possible
> > to run split, xmit on one freq and receive on another and at the same
time
> > consider yourself a courteous operator? I mean you have no idea who you
> > might be transmitting on top of. Anybody have a "GOOD" answer?
>
> Don't know about a 'good' answer, but there is no real reason to run split
> unless you are working a DX station who is listening off his xmit freq, or
you
> are a 'rare' station doing same. In this situation, courtesy seems to go
out
> the window, anyway (snip)

Date: Sat, 01 Apr 2000 02:31:05 -0800
From: Dave Fifield <fifield@pacbell.net>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [66978] New Country?
Message-ID: <004201bf9bc5$63238cc0$0100a8c0@pacbell.net>
MIME-version: 1.0
Content-type: text/plain; charset=iso-8859-1
Content-transfer-encoding: 8BIT

Did anyone else hear about the new island nation that will be on
the air for the first time today? Look out for F OL, working all modes,
all bands. Great opportunity to bag this rare one!

72, Dave Fifield, AD6A

Date: Fri, 31 Mar 2000 03:36:00 -0500
From: Bill Lazure <n2tpa@juno.com>
To: wb8qyy@cinci.rr.com
Cc: qrp-l@lehigh.edu
Subject: [66979] Re: Board Etching Techniques
Message-ID: <20000401.055622.-113019.0.n2tpa@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

Dieter,

     Don't know chemistry very much. Exactly how do you do this?!? I've
tried to get away from making my own boards because the FeCl3 is so hard
to get rid of around here. I don't want to dump it down the drain (some
day, I'll pay to have those pipes replaced), and on the local "turn in
your hazardous chemicals" day, they seemed pretty upset that I was even
able to get this!
     It'd be a tremendous help if I could start safely etching again.

73,

Bill
W2EB

"Dieter writes:
> Neutralize the FeCl3 with baking soda.
> It will precipitate the Iron
> AND Copper out of your waste solution.
>
>

_____
YOU'RE PAYING TOO MUCH FOR THE INTERNET!
Juno now offers FREE Internet Access!
Try it today - there's no risk! For your FREE software, visit:
http://dl.www.juno.com/get/tagj.

Date: Sat, 01 Apr 2000 13:00:27 -0800
From: oxf01@maxmail.co.uk
To: qrp-l@Lehigh.EDU
Subject: [66980] HB:Diode mixers
Message-ID: <38E6636B.3987@maxmail.co.uk>
MIME-Version: 1.0
Content-Type: text/plain; charset=iso-8859-1
Content-Transfer-Encoding: 8bit

Hi everyone:

Is there anyone who has done recent work on high performance diode ring
mixers? The literature that I have on the subject is rather dated.
Specifically, what do you recommend for diodes to achieve the highest
IP3 values? Also, assuming I m using correctly matched diodes and
carefully wound transformers, what s the absolute best intercept values
I can hope for in practice?

I would appreciate any advice that anyone has to offer.

73,

Mike, G4COA

Date: Sat, 01 Apr 2000 04:29:48 PST
From: "Leon Heller" <leon_heller@hotmail.com>
To: oxf01@maxmail.co.uk, qrp-l@Lehigh.EDU
Subject: [66981] Re: HB:Diode mixers
Message-ID: <20000401122948.54234.qmail@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

>Hi everyone:
>
>Is there anyone who has done recent work on high performance diode ring
>mixers? The literature that I have on the subject is rather dated.
>Specifically, what do you recommend for diodes to achieve the highest
>IP3 values? Also, assuming I m using correctly matched diodes and
>carefully wound transformers, what s the absolute best intercept values
>I can hope for in practice?

Diode mixers are outperformed by bus switch devices like the FST3125, which
are used in really high performance mixers, like those Colin Horrabin is
experimenting with. This is probably why you haven't been able to find much
in the way of current literature on the subject.

73, Leon

_____
Get Your Private, Free Email at http://www.hotmail.com

Date: Sat, 1 Apr 2000 14:54:52 +0200
From: "Hans Sundstrom" <hans.sundstrom@telia.com>
To: <fifield@pacbell.net>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [66982] SV: New Country?
Message-ID: <200004011255.OAA19646@d1o22.telia.com>

Oh yes, you must be talking abt FO0LED.
Or is it AP1RIL?
But they have been on the air almost every year abt this time. Never turn up
later in the year though...

73

Hans / SM4ATJ / 7S4A

-----Ursprungligt meddelande-----
Fr n: Dave Fifield <fifield@pacbell.net>
Till: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Datum: den 1 april 2000 12:30
 mne: New Country?

Did anyone else hear about the new island nation that will be on

the air for the first time today? Look out for F OL, working all modes,
all bands. Great opportunity to bag this rare one!

72, Dave Fifield, AD6A

Date: Sat, 01 Apr 2000 08:09:02 -0500
From: Hank Kohl K8DD <k8dd@arrl.net>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [66983] Re: SV: New Country?
Message-ID: <4.1.20000401080348.00d52f10@192.0.0.6>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I was fooling around, scanning across 10 cw this morning listening to
the EU opening.
Heard uf0ol (a new oblast) working kn0w/c0de (a new floating IOTA)

Then I woke up.

At 02:54 PM 01-04-00 +0200, Hans Sundstrom wrote:
>Oh yes, you must be talking abt FO0LED.
>Or is it AP1RIL?
>But they have been on the air almost every year abt this time. Never
>turn up later in the year though...
>
>73
>
>Hans / SM4ATJ / 7S4A
>
>-----Ursprungligt meddelande-----
>Fr n: Dave Fifield <fifield@pacbell.net>
>Till: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
>Datum: den 1 april 2000 12:30
> mne: New Country?
>
>
>Did anyone else hear about the new island nation that will be on
>the air for the first time today? Look out for F OL, working all modes,
>all bands. Great opportunity to bag this rare one!
>
>72, Dave Fifield, AD6A
>

>
>
>

Date: Sat, 1 Apr 2000 15:09:45 +0200
From: "Hans Sundstrom" <hans.sundstrom@telia.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [66984] Exclusive call
Message-ID: <200004011310.PAA28239@d1o22.telia.com>

Oh BTW, just worked AP1RIL on 24894.3

Take your chance, listens 1 kHz up. Nice guy, only QRV this day each year.
Might not get any QSL from him though.

72

Hans

Hans Sundstrom / SM4ATJ / 7S4A   sm4atj@hem.passagen.se
==========
ARRL / ARS / FRK / FRO / G QRP / HCA /
NorCal / QRP ARCI / QRP-L / SGCC / SSA

Date: Sat, 1 Apr 2000 13:10:43 +0100
From: wb2vuo@juno.com
To: n2tpa@juno.com, qrp-l@lehigh.edu
Subject: [66985] Re: Board Etching Techniques
Message-ID: <20000401.131220.-125265.0.wb2vuo@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

Hi Bill and the List. Keith here in the Depths of the Great Bergen
Swamps of WNY...

I dump my spent FeCl3 into the drain in the laundry as all of the piping
to the soil drain is PVC from that point, and the sink in the laundry is
fibreglass or some kind of laminate. No copper erosion to worry about,
and the MSDS on Ferric Chloride lists "Dilution" as a disposal method.
One pint of FeCl3 with 10 gallons of H2O seems dilute enough for me.

If you are dealing either with the Town of Salina or Town of Clay I can understand their misplaced concern. When I lived in Liverpool, the local goverment treated any chemical like another Solvay. Hey! That's a thought! Take it to the parking lot at the State Fair & pour it out. Nobody will even notice!

72/73, Keith, WB2VUO, 100% QRP from the Depths of the Great Bergen Swamp
VP & FD'00 Chairman, Brockport Amateur Radio Klub & SOC # 119
My night light runs more power than my Rig!!!
Replies off-list to: wb2vuo@arrl.net

Date: Sat, 1 Apr 2000 08:33:29 EST
From: Shephed@aol.com
To: qrp-l@lehigh.edu
Subject: [66986] Re: SV: New Country?
Message-ID: <4d.285c8e6.261754a9@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

In a message dated 4/1/00 8:12:11 AM Eastern Standard Time, k8dd@arrl.net writes:

<< I was fooling around, scanning across 10 cw this morning listening to
 the EU opening.
 Heard uf0ol (a new oblast) working kn0w/c0de (a new floating IOTA)

 Then I woke up. >>

I got N0CW/4U, working IOTA from the Cumoniwannaconya Islands.
I love this time of year. :-)

72, 73, oo's
Dan, N8IE Kettering,Oh
FPqrp #--6, QRP-l #1404, FISTS #4985, Zombie #667, SOC #284
http://members.aol.com/shephed/n8ie.htm

Date: Sat, 1 Apr 2000 08:58:08 -0500
From: "Hare, Ed, W1RFI" <w1rfi@arrl.org>
To: qrp-l@lehigh.edu
Subject: [66987] RE: ARRL Web Page Survey - QRP
Message-ID: <125490A005E3D3118C9C00805FC743CC3E18BE@mail.arrl.org>

MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"

> amazing how many say they NEVER operate QRP. They
> don't know what they're missing :^)

Well, my choice of wording on the question was not designed to extract the maximum amount of information, but to get the most number of people to admit to QRP operation. Maybe those who never operate QRP will realize that they are a minority and give it a go. :-)

73 from ARRL HQ,
Ed Hare, W1RFI
ARRL Laboratory Supervisor
225 Main St.
Newington, CT 06111
860-594-0318
Internet: w1rfi@arrl.org
ARRL Web: http://www.arrl.org/.
ARRL Technical Information Service: http://www.arrl.org/tis.

-----Original Message-----
From: Bob Hightower [mailto:nk7m@extremezone.com]
Sent: Friday, March 31, 2000 6:03 PM
To: w1rfi@arrl.org
Cc: qrp-l@lehigh.edu
Subject: Re: ARRL Web Page Survey - QRP

At 03:02 PM 3/31/2000 -0500, you wrote:
>Okay, guys and gals, so ONCE in a while, I manage to do something cool for
>QRP in the course of my official duties. :-)
>
>See the current survey on the ARRL Web Page at http://www.arrl.org.
>
>Now, there are quite a few current subscribers to QRP-L, and no small
number
>on other QRP mailing lists, so let's see a good voter turnout. I think ARRL
>HQ already knows that QRP is cool, but let's make sure that everybody who
>looks at the results is pleasantly surprised. :-)
>

amazing how many say they NEVER operate QRP. They don't know what they're
missing :^)
Bob Hightower NK7M

Chandler, AZ
SOC #20

http://www.extremezone.com/~nk7m

Date: Sat, 1 Apr 2000 07:31:46 -0700
From: "Rod, N0RC" <n0rc@qsl.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>, <w1rfi@arrl.net>
Subject: [66988] Re: ARRL Web Page Survey - QRP
Message-ID: <000001bf9be9$85d865a0$bb101004@compaq>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Interesting, subtract out the NOOPs, and 65% of the respondents work
QRP some of the time! It would be interesting to run this survey a
year from now to see if/how the number changes. Given the quality
products we have available, and QRP events like, Atlanticon, ArkieCon,
Pacificon...etc. My bet is the number would go up.

72/3 Rod, N0RC -- Fort Collins, CO

----- Original Message -----
From: Hare, Ed, W1RFI <w1rfi@arrl.org>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Sent: Saturday, April 01, 2000 6:58 AM
Subject: RE: ARRL Web Page Survey - QRP

> > amazing how many say they NEVER operate QRP. They
> > don't know what they're missing :^)
>
> Well, my choice of wording on the question was not designed to
extract the
> maximum amount of information, but to get the most number of people
to admit
> to QRP operation. Maybe those who never operate QRP will realize
that they
> are a minority and give it a go. :-)

Date: Sat, 01 Apr 2000 07:54:24 -0700
From: "James R. Duffey" <jamesd1@flash.net>
To: w6toy@erols.com
Cc: qrp-l@lehigh.edu
Subject: [66989] Re: Drift
Message-ID: <200004011454.IAA25330@chupacabras.flash.net>
Mime-version: 1.0
Content-type: text/plain; charset="US-ASCII"
Content-transfer-encoding: 7bit

Bruce - The Collins Permeability Tuned Oscillator (PTO) in the 75A4 was a generation or two ahead of any other tuned oscillator used in ham rigs when it was introduced. Of course, the PTO by itself cost as much as some of the inexpensive receivers of the Day!

Hammarlund got rid of the drift problems that my 170 has in the A model by runing the oscillator filaments all the time.

It is usually easier to design stable solid state oscillators than tube (vlave) oscillaotrs. There are two thermal regimes that a tube oscillator must be stabilized for, one when the filaments are warming up and once when the tube and oscillator has reached equilibrium and is thermally stable.

The temperature in most solid state oscillators does not change much from start up so only one temperature regime (constant) must be considered.

One of the keys to good stable oscillators is to keep the current in the device used in the oscillator low. This keeps the temperature excursions low and stability high. Usually the oscillator is run at a lower supply voltage to accomplish this. Other designs vary the feedback so that the oscillator just barely runs. This reduces circulating currents which also reduce temeprature.

New Direct Digital Synthesis, DDS, oscillators such as used in the DSW series are truly "drift free".

Neat huh? - Dr. Megacycle KK6MC/5

James R. Duffey KK6MC/5
30 Casa Loma Road
Cedar Crest, NM 87008

>From: Bruce Muscolino <w6toy@erols.com>
>To: jamesd1@flash.net
>Subject: Re: Drift
>Date: Fri, Mar 31, 2000, 07:58 PM
>

>James,
>
>Yes, that is true. But we are 30 years older, and our current radios
>are 30 years younger. Shouldn't we expect some improvement?
>
>My Collins 75A4 does not drift appreciably from a cold start. My
>HQ-170A is also very good. I have a TenTec SP325 that does not dirft at
>all. My Kenwood TS-130-V does not drift appreciably after 10 minutes.
>
>Almost any oscillator can be stabilized. It is a matter of finding the
>right temperature coefficient parts to do the job. It takes a lot of
>work, and does not always work for every circuit because of the effects
>of circuit heating. Good designs try to eliminate this factor.
>
>73
>

Date: Sat, 01 Apr 2000 08:58:29 -0600
From: "Steve Yates, AA5TB" <aa5tb@swbell.net>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [66990] Re: beacon ops?
Message-ID: <005b01bf9bea$c0841f40$c6773ed8@aa5tb>
MIME-version: 1.0
Content-type: text/plain; charset="iso-8859-1"
Content-transfer-encoding: 7bit

Michael,

The only restriction for manually controlled beacons are that you use less then 100W. There is no automatically controlled beacon operation allowed on 40m. This means you can't set it and leave it. As long as you're there at the rig as the control operator I don't believe there is problem with any frequency you want to use. I wouldn't choose a popular one though.

73,
Steve Yates - AA5TB
Fort Worth, TX - EM12gs
http://home.swbell.net/aa5tb

Date: Sat, 1 Apr 2000 09:58:35 -0500
From: "Hare, Ed, W1RFI" <w1rfi@arrl.org>
To: "'n0rc@qsl.net'" <n0rc@qsl.net>, Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [66991] RE: ARRL Web Page Survey - QRP
Message-ID: <125490A005E3D3118C9C00805FC743CC3E18C3@mail.arrl.org>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"

Keep in mind, the way the question is worded, Techs who operate only VHF with an HT may be checking box #1. The question was asked simply just to, well, keep it simple.

Besides, if it makes QRP look interesting to more people, I am all for it! :-)

73 from ARRL HQ,
Ed Hare, W1RFI
ARRL Laboratory Supervisor
225 Main St.
Newington, CT 06111
860-594-0318
Internet: w1rfi@arrl.org
ARRL Web: http://www.arrl.org/.
ARRL Technical Information Service: http://www.arrl.org/tis.

-----Original Message-----
From: Rod, N0RC [mailto:n0rc@qsl.net]
Sent: Saturday, April 01, 2000 9:32 AM
To: Low Power Amateur Radio Discussion
Subject: Re: ARRL Web Page Survey - QRP

Interesting, subtract out the NOOPs, and 65% of the respondents work QRP some of the time! It would be interesting to run this survey a year from now to see if/how the number changes. Given the quality products we have available, and QRP events like, Atlanticon, ArkieCon, Pacificon...etc. My bet is the number would go up.

72/3 Rod, N0RC -- Fort Collins, CO

----- Original Message -----
From: Hare, Ed, W1RFI <w1rfi@arrl.org>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Sent: Saturday, April 01, 2000 6:58 AM
Subject: RE: ARRL Web Page Survey - QRP

> > amazing how many say they NEVER operate QRP. They
> > don't know what they're missing :^)
>
> Well, my choice of wording on the question was not designed to
extract the
> maximum amount of information, but to get the most number of people
to admit
> to QRP operation. Maybe those who never operate QRP will realize
that they
> are a minority and give it a go. :-)

Date: Sat, 01 Apr 2000 09:12:10 -0600
From: Dave Sjolin <sjolin@swbell.net>
To: bowerm@ix.netcom.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [66992] Re: beacon ops?
Message-ID: <38E611CA.DC1A1C10@swbell.net>
MIME-version: 1.0
Content-type: text/plain; charset=us-ascii
Content-transfer-encoding: 7bit

Michael Bower - N4NMR wrote:
>
> Are there restrictions on beacons that I should be aware of? (I'm a tech
> plus.)

Michael, I could well be wrong but it was my understanding that
unattended transmissions (beacons) were not permitted below about 28.2
mhz.

Hope someone else has a more definitive answer.
73 de Dave, N0IT

Date: Sat, 01 Apr 2000 08:13:45 -0700
From: "James R. Duffey" <jamesd1@flash.net>

To: "qrp-l" <qrp-l@lehigh.edu>
Subject: [66993] New Quark Based Devices Promises Lower Noise Receivers (long)
Message-ID: <200004011513.JAA14825@chupacabras.flash.net>
Mime-version: 1.0
Content-type: text/plain; charset="ISO-8859-1"
Content-transfer-encoding: quoted-printable

I don=B9t know how many people on the list are interested in esoteric device physics, but I just came back from the library where I ran across a couple of interesting articles that may have some impact on future low noise electronics, including receiver front ends.

The first article, =B3Demonstration of A Novel Signal Amplification Device Using Unique Quark Based Semiconductors=B2 was in the latest =B3The Journal of Kinetic Electronic Structures=B2 (TJoKES, Nr. 72, Vol 4, pp 807). It describes a device similar to a transistor, except that instead of using electrons and holes as majority and minority carriers it uses quarks. Quarks appear to have a significant potential advantage when used in amplifying devices.

For those of you who slept through the second semester of Modern Physics and don=B9t watch NOVA regularly a quick review of quarks may be apropos. In the early 60s, Murray Gellmann (later to win the Nobel Prize for this work) postulated that elementary particles are made up of 3 fundamental particles called quarks. These quarks have either 1/3 or 2/3 the charge of an electron and can be either positive or negative. They also have other attributes such as spin, color, strangeness, and charm that are not relevant to the discussion here. Fundamental particles have only recently been broken down into their constituent quarks due to the high energies required. The word quark, believe it or not, comes from a James Joyce novel. The pulican announces "Three quarks for Mr. Snark"

As is typical these days in high energy Physics, the author list contains 23 contributors, most of whom work at Minnesota State University, where the work was conducted at their particle accelerator. For those of you who are public radio fans, MSU is located on Highway 14, east of Tracy, Minnesota and just south of Garrision Keillor=B9s mythical Lake Woebegone.

Due the high energies required, the device must be =B3created =B3 at the end of a high energy particle accelerator. In addition, special containment fields must be generated simultaneously so that the quarks, once created, can be prevented from recombining into conventional carriers. Even so, the researchers showed convincing data that indicates amplification of a signal which lasted only 3.7 nanoseconds before the quarks recombined. Needless to say I-V characteristics were not obtained. The present usefulness of such a device is limited of course.

What advantage does this device offer to us? Well, there should be significant reduction in noise when using such a device. Shot noise depends on the square root of the number of carriers, so that the signal-to-noise ratio will depend on the square=00root of the number of carriers. In order to carry the same signal, a quark device with charge 1/3 that of an electron will require 3 times the carriers, yielding an improvement in signal to noise ratio of the square root of three. In addition, the device has three times the carriers available and offers a 3 times improvement in signal. Thus the total signal to noise improvement is three times the square root of three or slightly over 5!!

The potential advantages of these devices will mainly be in the VHF/UHF/microwave weak signal region. As you know, noise also depends on the square root of the temperature of the device. A 5 times reduction in the signal to noise ratio means that, theoretically at least, a device could be operated at 25 times the temperature they presently are operated at and still have the same noise figure. Conceiveably Hams could achieve the same noise performance with these devices at room temperature that the VLA achieves with its low noise amplifiers at 15 K!! The VLA could achieve front ends with an equivalent temperature in the front end of less than 1 K, a temperature that is impossible to generate with any heat capacity using conventional coolers!

The article described some unsuccessful efforts to make the device more practical for use. The idea of a usable receiver (especially QRP!) built around a particle accelerator is rather absurd even for forward thinking inventors. The authors describe attempts to shrink the particle accelerator into a more convenient size. A heated source of particles driven by an external low voltage source, a collector plate tied to the generator through a high voltage, and a control electrode made from a grid of wires were placed in an evacuated glass vessel. Although quark production was not achieved with this crude linear accelerator, some amplification was noted with the conventional carriers present, presumably electrons. The authors dubbed this device a =B3Hot Carrier Field Effect Device=B9 which may have utility of its own, without any quark amplification.

The next article in the Journal , =B3Amplification and Detection of Electromagnetic Waves Using Hot Carrier Field Effect Devices=B2 (TJoKES, Nr. 72, Vol 4. pp 813), describes the use of these devices in more detail. There are only two authors to this article (apparently device physics is not the communal effort that particle physics is) , a Dr. Atwater and his graduate student, Lois Kent. They built a crude detector out of the device using what appears to be some sort of diode or rectification action and a tuned circuit on the input. This was preceeded by several stages of sharply tuned amplifier stages using the new device. The whole thing operates at 770 kHz. The authors noted it was difficult to tune the amplifiers simultaneously for peak

performance, but noted that they could detect some local broadcast stations with the contraption. They also noted a tendency towards instability, presumbaly oscillation, but did not elaborate other than to say that the gain seemed to increase near these instabilities. I don=B9t know if they were using sockets or not. They also showed a schematic for an amplifier circuit using these devices which reminded me a lot of a MOSFET push pull amplifier. They claim good perormance at audio frequiecies, but did not show any specific data. (It sounds to me like they should give up Physics and concentrate on the Audiophile market. - Audiophiles=00should eat this stuff up) Apparently they have bult at least two generations of the deivce, in the schematics they are referred to as device O1A.

I have serious doubts as to whether or not these devices in glass vessels will be useful. It seems to me that if they are going to get any appreciable number of carriers out of an electrode, even in a vacuum they will need to heat it very hot. This in turn will consume a lot of power and generate a lot of heat. Since the noise scales as the temperature they will undoubtably be very noisy. Also since the carrier is both created and captured it seems like the shot noise will be doubled. I=B9ll bet they are quite large due to the high voltages required, so you could probably build a whole transceiver like the SWL-40, NorCal 40, or 49er inside one. Give me a 2N2222 any day.

I see by the clock another month is gone. It is 1 April, at least in UTC land.- Dr. Megacycle KK6MC/5

James R. Duffey KK6MC/5
30 Casa Loma Road
Cedar Crest, NM 87008

Date: Sat, 1 Apr 2000 08:23:49 -0700
From: "Rod, N0RC" <n0rc@qsl.net>
To: <w1rfi@arrl.org>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [66994] Re: ARRL Web Page Survey - QRP
Message-ID: <002c01bf9bee$b8d12820$bb101004@compaq>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Ed:
----- Original Message -----
From: Hare, Ed, W1RFI <w1rfi@arrl.org>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Sent: Saturday, April 01, 2000 7:58 AM

Subject: RE: ARRL Web Page Survey - QRP

> Keep in mind, the way the question is worded, Techs who operate only
VHF
> with an HT may be checking box #1. The question was asked simply
just to,
> well, keep it simple.
        ^^^^^^^^^^^^^^^

One of the many "Joy's of QRP"!

Date: Sat, 01 Apr 2000 09:35:41 -0500
From: Dennis Blanchard <jadepro@jadeprod.com>
To: qrp-l@Lehigh.EDU
Subject: [66995] Re: Who has good enclosures for qrp stuff.
Message-ID: <38E6093D.174B73C8@jadeprod.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi Randall:

You might check our our enclosure too, it is similar in size and shape
to those used in the HW-9 series by Heathkit.

http://www.jadeprod.com/compont.html

73

Dennis, K1YPP
Jade Products, Inc.

Date: Sat, 01 Apr 2000 10:10:45 -0600
From: "Steve Yates, AA5TB" <aa5tb@swbell.net>
To: jamesd1@flash.net, Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [66996] Re: New Quark Based Devices Promises Lower Noise Receivers (long)
Message-ID: <00a501bf9bf4$d8e56120$c6773ed8@aa5tb>
MIME-version: 1.0
Content-type: text/plain; charset="iso-8859-1"

Content-transfer-encoding: 7bit

Thanks for the post James,

I'm always interested in hearing about the discoveries regarding quarks,
electrons, protons, gluons, and other such sub-atomic particles.

It sounds like the morons have finally discovered the "vacuum tube" ;-)

73,
Steve Yates - AA5TB
Fort Worth, TX - EM12gs
http://home.swbell.net/aa5tb

Date: Sat, 01 Apr 2000 08:11:43 -0800
From: Ed Loranger <we6w@qsl.net>
To: w0av@juno.com, Low Power Amateru Radio Discussion <qrp-l@lehigh.edu>
Subject: [66997] Ref: K2 Upgrades
Message-ID: <38E61FBF.500AD6A6@qsl.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Regarding the 160/SSB/ATU install in already
build K2, I have experience. This is a day
late (reading the archives on your request) and
don't know if you have the answer.

I can help. Let me know and I'll email privately
on the best way to do this.
-Ed

--
72/Ed we6w; A-1 OP; SOC#63; QRPL#1068
http://www.qsl.net/we6w Santa Rosa, CA
Brain, only as strong as its weakest think.

Date: Sat, 01 Apr 2000 11:44:37 -0500
From: Tom Isgro <k8cz@concentric.net>
To: w1rfi@arrl.org
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [66998] Re: ARRL Web Page Survey - QRP
Message-ID: <38E62775.DC20150@concentric.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Ed et al:

I just voted and was pleasantly surprised to learn that almost
two/thirds of the respondents work QRP at least 25% of the time. Very
encouraging.
--
72, 73 oo's
Tom K8CZ Hamilton, OH
FPqrp #--41, QRP-l 945, FISTS 2360, NORCAL 2113, ARCI 9606,
10-10 68364, SCI 1479, ARS 203, ARRL

Date: Sat, 1 Apr 2000 11:52:36 -0500
From: "Hare, Ed, W1RFI" <w1rfi@arrl.org>
To: "'Low Power Amateur Radio Discussion'" <qrp-l@Lehigh.edu>
Subject: [66999] [FS]: FW: HW-9 for sale
Message-ID: <125490A005E3D3118C9C00805FC743CC3E18CD@mail.arrl.org>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"

Al is not a subscriber to QRP-L. Respond directly to him.

-----Original Message-----
From: Albert Alvareztorres, Jr. [mailto:albert13@home.com]
Sent: Saturday, April 01, 2000 12:52 AM
To: Ed Hare; Mike Tracy
Subject: HW-9 for sale

Heath HW-9 station
Hammarlund HQ-100
Hallicrafters SX-100
Hallicrafters S-38C
Heath Twoer
AMECO Code Practice Oscillator
Cushcraft AR6

Look at the stuff at:
http://www.qsl.net/aa1do/ <http://www.qsl.net/aa1do/>

Al
ARS: AA1DO
URL: http://members.home.net/albert13/index.htm
<http://members.home.net/albert13/index.htm>

Life is what happens while you are making other plans.
John Lennon (1940-1980)

Date: Sat, 01 Apr 2000 11:56:59 -0500
From: Tom Isgro <k8cz@concentric.net>
To: cd25d@rhapsodysails.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [67000] Re: New Zealand Call Signs
Message-ID: <38E62A5B.5C477040@concentric.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Bill and others:

FWIW the ARRL Operating Manual shows New Zealand:

ZL1--Aukland
ZL2--Wellington
ZL3--Christchurch
ZL4--Dunedin

--
72, 73 oo's
Tom K8CZ Hamilton, OH
FPqrp #--41, QRP-l 945, FISTS 2360, NORCAL 2113, ARCI 9606,
10-10 68364, SCI 1479, ARS 203, ARRL

Date: Sat, 01 Apr 2000 12:08:34 -0500
From: Tom Isgro <k8cz@concentric.net>
To: wb8qyy@cinci.rr.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>

Subject: [67001] Re: Operating:Just wondering...
Message-ID: <38E62D12.1D93BD74@concentric.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Well,

I wouldn't consider operating split except for DX pileups when everybody
is going crazy anyway. Still, I would consider using my second VFO to
check my transmit frequency. Chances are your not going to step on
anyone but other DX'rs. That's the price everybody pays to play _that_
game.

Isn't QRP much nicer?

--
72, 73 oo's
Tom K8CZ Hamilton, OH
FPqrp #--41, QRP-l 945, FISTS 2360, NORCAL 2113, ARCI 9606,
10-10 68364, SCI 1479, ARS 203, ARRL

Date: Sat, 01 Apr 2000 11:42:01 -0600
From: Daniel R Case <drcase@iastate.edu>
To: qrp-l@Lehigh.edu
Subject: [67002] PW-1 Antenna
Message-ID: <4.2.0.58.20000401113920.0099bcb0@drcase.mail.iastate.edu>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Greetings:

I'm considering purchasing one of W6MMA's PW-1 Portable Antennas. It looks
like a good antenna solution for apartment dwellers. Does anybody have any
opinions or information on the performance of this antenna? Any comments
or help would be greatly appreciated.

73!
Dan KB0JUL
Ames, Iowa

drcase@iastate.edu

Date: Sat, 01 Apr 2000 09:45:33 -0500
From: Bob Parks <rob3ert@thegrid.net>
To: qrp-l@lehigh.edu
Subject: [67003] FS:AT-11 Antenna Tuner
Message-ID: <4.3.0.20000401093732.00a92b40@mail.thegrid.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

LDG AT-11 Automatic Antenna Tuner in LDG case. Can't seem to find the manual.
(BTW, this is the "QRO" version, not the QRP version).
$110 - shipped. (If I do find the manual, I'll include it).

72/73
Bob Parks
K6AEC (Las Vegas, NV)

Click here for Free Video!!
http://www.gohip.com/freevideo/

Date: Sat, 1 Apr 2000 13:05:56 EST
From: SMurph555@aol.com
To: qrp-l@lehigh.edu
Subject: [67004] HW-9 Power Connector (Jack)
Message-ID: <66.256fd39.26179484@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Hi all,
     Looking for a power input (12 VDC) jack for an HW-9. If this is a standard Molex two pin connector, does anyone know the Molex number? Or does anyone have one of the originals with which they would like to part?
72/73
Cal K4JSI

Date: Sat, 1 Apr 2000 13:25:41 EST
From: Wa3ptg@aol.com
To: qrp-l@lehigh.edu
Subject: [67005] HB: receiver happy dance
Message-ID: <63.3a985de.26179925@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Did a "mod" on the DC receiver I've been using on 40 meters. Added a crystal filter and another NE602, tinkered with the local oscillator, and it now a superhet! The crystals aren't well matched, so the bandwidth is about 3 khz, quite an improvement on the 10-15 khz I've been living with.
This manhattan style stuff is the way to go for homebrew.

72 DE WA3PTG   (Real General doing the happy dance!)
Harry (Hap) Hurst   NJQRP-EPAQRP
Wilmington DE   QRP-L #1464
"Not a danger to himself or others but..."

Date: Sat, 1 Apr 2000 11:48:19 -0700
From: "Rod, N0RC" <n0rc@qsl.net>
To: <drcase@iastate.edu>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [67006] Re: PW-1 Antenna
Message-ID: <00ee01bf9c0b$488df760$bb101004@compaq>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Daniel, et. al.

My thought, buy one!

I did just that at Atlanticon last week, I also got the 80m loading coil.

First off it's a quality piece of merchandise well designed and well built. Like you I have limited space, I live in a patio home. My "regular" antenna is an attic dipole. I bought the PW-1 for tmp setups in the backyard, and to-the-field operations.

Today was the first day I had a chance to play with it. At the moment it's mounted to a 6ft step ladder on the patio, I have it connected to my K2 through an SWR meter. With no tuner the SWR is 1.1:1 on 10m. I had my first QSO with WA4TXE in No. VA. I was running the K2 off internal batts @ about 10W. Dave was QRP at 10W with a Radio Shack rig. Aside from the QSB we heard each other just fine. 5x5, 5x4 at little less at times.

What I like best about this rig is: How fast it sets up, 5min!; All HF band coverage, with extra 80m loading coil; Small size the antenna and all its parts fit into a box 2in x 2in x 15in.

The PW-1 is going to see a lot of action here at ARS N0RC.

72/3 Rod, N0RC -- Fort Collins, CO

----- Original Message -----
From: Daniel R Case <drcase@iastate.edu>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Sent: Saturday, April 01, 2000 10:42 AM
Subject: PW-1 Antenna

> Greetings:
>
> I'm considering purchasing one of W6MMA's PW-1 Portable Antennas.
It looks
> like a good antenna solution for apartment dwellers. Does anybody
have any
> opinions or information on the performance of this antenna? Any
comments
> or help would be greatly appreciated.

Date: Sat, 01 Apr 2000 11:16:07 -0500
From: Bob Parks <rob3ert@thegrid.net>
To: qrp-l@lehigh.edu
Subject: [67007] FS: AT-11
Message-ID: <4.3.0.20000401111445.00a8b890@mail.thegrid.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Gangue,

Thanks for all the interest. It's been sold!

Regards es 72/73,

Bob Parks
K6AEC

Click here for Free Video!!
http://www.gohip.com/freevideo/

Date: Sat, 1 Apr 2000 11:40:52 -0500
From: "Michael Bower - N4NMR" <bowerm@ix.netcom.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [67008] Re: beacon ops?
Message-ID: <07e601bf9c16$be3ac780$0100a8c0@dadsmachine>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

That's why asked via the list. Good thing I did, huh?

So much for the beacon idea. Thanks all who replied.

Michael - N4NMR

----- Original Message -----
From: Dave Sjolin <sjolin@swbell.net>
To: <bowerm@ix.netcom.com>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Sent: Saturday, April 01, 2000 10:12 AM
Subject: Re: beacon ops?

> Michael Bower - N4NMR wrote:
> >
> > Are there restrictions on beacons that I should be aware of? (I'm a
tech
> > plus.)
>
> Michael, I could well be wrong but it was my understanding that
> unattended transmissions (beacons) were not permitted below about 28.2
> mhz.
>
> Hope someone else has a more definitive answer.
> 73 de Dave, N0IT

Date: Fri, 31 Mar 2000 15:22:45 -0500
From: Mike Czuhajewski <wa8mcq@erols.com>
To: QRP forum <qrp-l@lehigh.edu>
Cc: Mike Czuhajewski <wa8mcq@erols.com>
Subject: [67009] FS: Rotary step attenuators, 0 to 10 dB
Message-ID: <38E50915.690A@erols.com>

MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Off topic? I hardly think so. Rotary attenuators are quite useful to technically inclined QRPers for testing, experimenting, homebrewing, etc. They can also be a lot of fun if you're into milliwatting and want to quickly and easily reduce output power on the fly by precise steps. (Three dB cuts power in half, 6 cuts it in half again, 9 is another half, and you're suddenly running 1/8 the power you started with.) Just remember to keep a healthy respect for the power rating of the attenuator and don't go close to it :-) You can get inexpensive 1% resistors from DigiKey and other places, but trust me, some of those resistors in some attenuators are just about impossible to get to without spending a couple of hours completely stripping everything to the bone. And a couple more rebuilding it.

I have four of these for sale--JFW Industries model 50R-019 rotary step attenuators, 0 to 10 dB in 1 dB steps. These are 50 ohms, BNC connectors, and they still have the 0-10 dials on them, not some generic replacement. These are still listed in their current catalog; the specs are DC to 2 GHz, 1 watt average power.

These are used but in good condition. Size is 2" long, plus 3/4" shaft plus knob, 1 1/2" diameter (with BNCs sticking out beyond that on one side). The front plate is tapped, so you can mount them behind a panel if desired.

These come with something that you never get when buying a used attenuator at a low price at a hamfest: a believble guarantee that they work! I first checked them all at DC using a simple test box that I described in the QRP Quaterly a few years ago, to make sure nothing was burned up. All positions gave the proper attenuation, indicating that none of the resistors inside were damaged. (That's a risk you take when buying at hamfests.)

I later checked all of these from 1 MHz to 1 GHz on an HP 8753C network analyzer, and they fall within the published tolerances for insertion loss and attenuation in all positions (with a few being slightly outside the limit at a couple of frequencies by a tenth or two of a DB in the 700-1000 MHz region on some of the higher attenuation positions).

Insertion loss is rated at 0.2 dB maximum from DC to 1 GHz, and attenuation is +/- 0.2 dB over the same range. I didn't bother checking above 1 GHz because few people will probably use them that high, and extensive experience with a few dozen used attenuators over the years shows that some of them do strange things at higher frequencies. (The display on the analyzer makes a nice roller coaster ride.) They may well

meet the specs in the books when new, across the entire range, but don't bet the farm on them meeting them after years of aging and use and abuse :-)

Price is $23 each (US funds), which includes priority mail shipping from MD. (If you've ever priced these things at one of the better used test equipment dealers that show up at hamfests sometimes, and really have checked theirs and guarantee them, you know this is a very good deal.)

--
73 and Queue Our Pea de WA8MCQ wa8mcq@erols.com

Date: Sat, 1 Apr 2000 15:46:15 -0500
From: "Michael Bower - N4NMR" <bowerm@ix.netcom.com>
To: "qrp-l" <qrp-l@lehigh.edu>
Subject: [67010] TiCK Keyer and PK-2
Message-ID: <082401bf9c1b$537834a0$0100a8c0@dadsmachine>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi, gang, question on keyers.

I tried to build a PK-2 keyer many months ago and had a lot of trouble. (My problem, NOT with the kit.)

One of the things I remembered is that the PK-2 chip is compatible with the TiCK keyer chips.

At Atlanticon 2000 I won a TiCK 4 EMB and bought an enclosure. Built it today and it worked fine. (I guess I'm getting more experience. Sierra/K2, here I come.)

Then I remembered the comment about the PK-2 compatibility.

I took out the TiCK 4 chip and put in the PK-2 chip. Seemed to work fine.

My question:

Is there anything that my feeble mind is missing that I should know about before I ruin things in either the PK-2 or the TiCK 4? (The only thing I lose by putting the PK-2 into the TiCK enclosure is the use of a knob for setting the speed. The PK-2 allows for a pot to set speed. The TiCK doesn't.

Comments?

Michael - N4NMR

Date: Sat, 1 Apr 2000 16:05:01 EST
From: Nv4t@aol.com
To: jamesd1@flash.net, qrp-l@lehigh.edu
Subject: [67011] Re: New Quark Based Devices Promises Lower Noise Receivers (long)
Message-ID: <1c.1e7de31.2617be7d@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Looks like Mr.'s Up, Down , Charmed, etc. have done it again!

73 & happy April 1, NV4T

Date: Sat, 1 Apr 2000 15:34:08 -0600 (CST)
From: Bruce Rattray <rattray@neale.gpfn.sk.ca>
To: Low Power Group <qrp-l@LeHigh.EDU>
Subject: [67012] FS:Johnson Viking Matchbox
Message-ID: <Pine.LNX.3.95.1000401153205.1833A-100000@neale.gpfn.sk.ca>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I have the Johnson Viking Matchbox, model 250-23 for sale at $80.00 US + shipping....this is the one without the directional coupler and is rated at 275 watts...there are a few scratches on it that I would rate at 8 on a scale of 10...I have the Johnson Operation Instruction Manual with it...this manual includes schematic and information on models 250-23, 250-23-3, 250-30 and the 250-30-3.....if interested please e-mail me direct.....thank you for your time and consideration.....

..72/73 - Bruce (VE5RC+VE5QRP) QRP-C#1 QRP-L#886 ARCI#9683 Zombie#272
A-1 Operator Club - 10/10# 944 - SOC #11 & #12 - Whiner#10 -
"QRP! How sweet it is!" "I am da man wit "DAH" paddle!"

... ps - I just took a couple of pictures of this unit and I think I can e-mail them to anyone.....new technology for me but I think I can do this,

if anyone's interested in seeing the Matchbox.

Date: Sat, 1 Apr 2000 16:40:37 -0500
From: Barry J Minsky <w2bj@juno.com>
To: drcase@iastate.edu
Cc: qrp-l@Lehigh.EDU
Subject: [67013] Re: PW-1 Antenna
Message-ID: <20000401.165150.-391539.0.w2bj@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

Hi Dan,
I have one and think it is great. It breaks down into sections that are 12 inches long. He also sells a solid whip for mobile use. I have used it while on vacation and had many good QSOs. The one thing you need is some way of determining resonance. I have an MFJ antenna analyzer which works well.

On Sat, 01 Apr 2000 11:42:01 -0600 Daniel R Case <drcase@iastate.edu> writes:
> Greetings:
>
> I'm considering purchasing one of W6MMA's PW-1 Portable Antennas.
> It looks
> like a good antenna solution for apartment dwellers. Does anybody
> have any
> opinions or information on the performance of this antenna? Any
> comments
> or help would be greatly appreciated.
>
> 73!
> Dan KB0JUL
> Ames, Iowa
>
> drcase@iastate.edu
>

72/73,
Barry J. Minsky, W2BJ
ARRL, QRP ARCI #8871, NorCal #1560, QRP-L #1543, FISTS #2701, Century Club #569, Platinum #51, Silver #119, FISTS CW Club of Coastal Georgia, Knightlites, Adventure Radio Society #359,
Six Club #151, QCWA #29298, OOTC #3723, SOC #193

Date: Sat, 1 Apr 2000 15:53:06 -0600 (CST)
From: Bruce Rattray <rattray@neale.gpfn.sk.ca>
To: QRP-Canada <qrp-canada@lists.gpfn.sk.ca>, Low Power Group <qrp-l@LeHigh.EDU>
Subject: [67014] FS: Johnson Matchbox
Message-ID: <Pine.LNX.3.95.1000401155201.3102B-100000@neale.gpfn.sk.ca>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

The Matchbox has been sold....thanks to all.....

..72/73 - Bruce (VE5RC+VE5QRP) QRP-C#1 QRP-L#886 ARCI#9683 Zombie#272
          A-1 Operator Club - 10/10# 944 - SOC #11 & #12 - Whiner#10 -
          "QRP! How sweet it is!"   "I am da man wit "DAH" paddle!"

Date: Sat, 1 Apr 2000 16:55:15 -0500
From: hamjoel@juno.com
To: erics@elecraft.com, elecraft@qth.net, qrp-l@lehigh.edu
Subject: [67015] Cajun MoJo
Message-ID: <20000401.165517.-237905.0.hamjoel@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

High Y'all
     SN 877 HEAH... wonder who got the 807 :-)
Well, I just worked F6FPQ using sstv and 5 watts from my Mojo machine...
put a little cajun twist to that mojo and got me a 555.... that's 5 for
video...
     A-mazing little radio to place in cajun hands especially up heah in
yankee country... got the Mojo on the side of my Ohoh ... and there just
an't no comparison... With all the neat fun things this radio can do I is
'bout 'cited as a cajun lad on his honeymoon...
and staying up just as late too..
     I thought all this Mojo stuff was hpye but now I kneaux... if u gonna go
u gotta geaux with Mojeaux...
Joel KE1LA
In Maine
conteplating putting meaux Mo in MoJO
____
YOU'RE PAYING TOO MUCH FOR THE INTERNET!
Juno now offers FREE Internet Access!
Try it today - there's no risk! For your FREE software, visit:
http://dl.www.juno.com/get/tagj.

Date: Sat, 1 Apr 2000 14:59:04 -0700 (MST)
From: "Paul Harden, NA5N" <na5n@rt66.com>
To: Sam Stimson <n5wu@worldnet.att.net>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [67016] Re: Zombie Shuffle
Message-ID: <Pine.SUN.4.10.10004011444040.11159-100000@shell.rt66.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Fri, 31 Mar 2000, Sam Stimson wrote:
> Anyone hear anymore about the Zombie Shuffle Pins and Certificates? Just
> interested....
>
> Sam
> N5WU

All of the Zombie Shuffle Certificates and Zombie Lapel Pins were mailed out today, saturday, April 1st (no fooling) about 11:17 am from the Socorro, New Mexico postoffice. Try to explain to the postal clerk what 96 envelopes marked "ZOMBIE" is all about!!!

We had ordered some padded envelopes, that turned out just to be too difficult to use. The certificates were printed on heavy parchment cover stock, and folding into "thirds" we found to be too destructive to the certificates. So we ordered larger padded envelopes requiring us to only make a single fold, which came in a few days ago.

Plus, (the "what were we thinking department"), all certificates were designed to be filled in by hand with the calls, Zombie Number, cause of death, special gold-foil seals for the Grand Zombie Stations, the Elvis Stations, etc. The time to do all that handwork on nearly 100 certificates was enormous. I did all the calligraphy (term loosly applied) and Jan N0QT did all the envelope stuffing, addressing, etc. Took hours, but we enjoyed it. We enjoyed everyone's "cause of death" and knowing between the certificate and the pins, you will be getting something truly personalized and different, and worth hanging up on the shack wall.

72, Paul NA5N
Grand Zombie #004

Date: Sat, 1 Apr 2000 17:01:43 EST
From: NM5Mike@aol.com
To: qrp-l@lehigh.edu (Low Power Amateur Radio Discussion)
Subject: [67017] Heathkit HW 8 Help
Message-ID: <ea.38f6066.2617cbc7@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

I recently purchased an HW 8 from a local ham. The rig looked ok from the outside, however it seems that the previous owner decided to add an internal keyer and did so in a very sloppy manner.

The receiver works only on 20 meters, and there is no TX output power. The relay does change from Rx to Tx when the key contact is closed.

I would like to restore the HW 8 to its original condition and would appreciate help from someone who has had consiserable experience in getting them to work.

Please respond directly to my email address (nm5mike@aol.com)

Regards,

Eric - NM5M

Date: Sat, 01 Apr 2000 17:06:55 EST
From: Dean W Manley <kh6b@juno.com>
To: w2bj@juno.com
Cc: qrp-l@Lehigh.EDU
Subject: [67018] Re: PW-1 Antenna
Message-ID: <20000401.120838.5391.1.kh6b@juno.com>

Hi PW-1 group,

My PW-1 came with NO instructions, documention,
nor instruction sheet. Anyone receive them? Just
wondering. No answer from my email to Vern.
It came fast via priority mail, tho.

Aloha,
Dean KH6B HIQRPC #001
Hilo Hawaii

On Sat, 1 Apr 2000 16:40:37 -0500 Barry J Minsky <w2bj@juno.com> writes:
>Hi Dan,
>I have one and think it is great. It breaks down into sections that
>are
>12 inches long. He also sells a solid whip for mobile use. I have
>used
>it while on vacation and had many good QSOs. The one thing you need
>is
>some way of determining resonance. I have an MFJ antenna analyzer
>which
>works well.
>
>On Sat, 01 Apr 2000 11:42:01 -0600 Daniel R Case <drcase@iastate.edu>
>writes:
>> Greetings:
>>
>> I'm considering purchasing one of W6MMA's PW-1 Portable Antennas.
>> It looks
>> like a good antenna solution for apartment dwellers. Does anybody
>> have any
>> opinions or information on the performance of this antenna? Any
>> comments
>> or help would be greatly appreciated.
>>
>> 73!
>> Dan KB0JUL
>> Ames, Iowa
>>
>> drcase@iastate.edu
>>
>
>72/73,
>Barry J. Minsky, W2BJ
>ARRL, QRP ARCI #8871, NorCal #1560, QRP-L #1543, FISTS #2701, Century
>Club #569, Platinum #51, Silver #119, FISTS CW Club of Coastal
>Georgia,
>Knightlites, Adventure Radio Society #359,
>Six Club #151, QCWA #29298, OOTC #3723, SOC #193

Date: Sat, 1 Apr 2000 17:14:43 -0500
From: "John J. McDonough" <wb8rcr@arrl.net>
To: <fifield@pacbell.net>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [67019] Re: NC-20 Tune Pot
Message-ID: <004e01bf9c27$afa44820$010044c0@Conor.baycty1.mi.home.com>
MIME-Version: 1.0
Content-Type: text/plain;

charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Thanks Dave,

Well, it wasn't much of a detour, and we've proceeded well past that point.

To tell the truth, half the reason I posted was out of guilt. Doug Hendricks posted a note on the Cub list a couple of days ago reminding folks to cross post good stuff to QRP-L as well. With the Cub list, the K2 list and who knows what else, technical postings to QRP-L have been getting a little thin. And on those rare occasions when I have been doing something interesting, I haven't been posting, either. So if figured even tho there probably aren't a lot of unbuilt original NC-20's in captivity, there may be some, and maybe I can help someone else avoid the same detour. Turns out there are other unbuilt/partially built NC20's around, as I quickly learned by email.

And by way of report, it's going quite well. VFO appears to tune from 999 to 083 (as reported by the AFA), got the Tick in and working, all the crystals, transistors, and fixed inductors for the receiver in, just about to face that long list of receiver caps.

72/73 de WB8RCR http://members.home.com/wb8rcr/index.htm
didileydadidah QRP-L #1446 Code Warriors #35

-----Original Message-----
From: Dave Fifield <fifield@pacbell.net>
Subject: Re: NC-20 Tune Pot

[clip]

Date: Sat, 01 Apr 2000 14:15:35 -0800
From: Ed Loranger <we6w@qsl.net>
To: George F Franklin <w0av@juno.com>, qrp-l@lehigh.edu, n5ib@juno.com, Bruce Rattray <rattray@neale.gpfn.sk.ca>, paule@sfu.ca, Rod Johnson <ka7you@juno.com>
Subject: [67020] Re: Ref: K2 Upgrades
Message-ID: <38E67507.C1E51F3E@qsl.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Wow. I got lots of requests for "my perception" on the
best way to retrofit options into the K2 and/or building
the rig from scratch and how to add options least
painfully.

As I am set to spend a weekend with mom and no-doubt
show her who is boss in scrabble and upwords games,
I have to reply now since I'll be off the CPU until
Monday. Yes, I'll be back at the rig Sunday night
at 7 PM Pacific time (Dayligh savings), at 0200Z on
7039 KHz for the QRQ net. Then back to the fun
and games with mom who quit smoking and is
losing weight and feeling great these days.

Before getting into the K2 issues I am blanket answering
some of the quick questions in the other emails:

Van failed smog but was pre-inspection, need to seal
carbureter base. Bicycle has been quiet since the
work injury. No need to post this to a webpage. N/B
toroid turns: Forget it, get the upgrade, no tuning required.
Otherwise, don't wind especially tight and follow the procedure.
Should get 2 peaks when tuning older N/B (Pre. Feb. 3rd, 2000)

Ok, first the summary of the external parts of the
options.

SSB: added components on front panel board and configuration
of microphone using multipin strip on back of the FP board. Change
CW keying waveform affecting capactor on top edge of installed
control board. (The newer rigs have the new value. was a 104, now
a 473 part.) RF board:Removal of Capacitor (savefor later) removal
of bypass jumpers and installation of 3 header pin strips.

N/B: Requires open of bottom of board cover (Not heatsink.) Add
header pins and support standoff, removal and change of 5 dB attenuator
on RF board.

ATU: Add RF pickup plug near output Lo-Pass network. Removal of
Heatsink to install that one plug there. It may touch one of the
toroids
so wind the nearby toroid and pull tight to board away from that plug
location. Integration into the top cover is straight forward but a bit
clumsy to do. Requires removal or temp.removal of Battery option
to do the final install. Watch carefully to install the external ground

lug that you don't tighten improperly, use the allen wrench thru the
hole. You don't want this thing coming loose in the field as many older

rigs have a ground lug that turns freely :) The ATU connects to a multipin male connector on the control board. Add the extra pins inside the female portion of this connector for added strength. Place a red dot of nail polish on this connector on both male and female parts to be certain it is reinstalled properly at a later date.

160/RX. Heatsink opened. Header strip soldered, connectors at rear on PC board. Bypass jumpers cut first, heated wire and pulled out, then holes solder sucked clean.

Battery: Not a troublesome install. RF board needs 2 pin male connector -- easy to get to with just the bottom and top removed.

I recommend nailpolish on the inside of the K2 for any nut that might shake loose over time. Hit the feet on the inside heatink and bottom cover. Also the speaker assy. etc., anywhere not normally played with. Always check the output transistor external nuts that they are firm.

OK. #1, Building a new K2 sequence:

Add SSB components and wire microphone connector for your mike. If no mike yet, wire it straight across for a K2 mike. Fix that later. SSB components best added when the build height of the FP board is appropriate for these components. Double wrap the MIKE connector with nickel wire so that when installed, the wires would snake to the left of the board toward the two-holled ground. solder both wires there after twisting. solder wires to eachother, not the mike connector before installing. Also, before closing up the front panel board, be sure you have the correct hex stand-offs on the FP board where the control board is attached. Check that the control board fits properly to the FP board with now space, if there is, add star washers under the hex stand-offs on the FP board to increase the height. (older builds.)

#2. Control board keying capacitor for 15 Watt rigs. substitute when that cap is called for. Open the SSB manual, locate the instructions for this part and then highlight that capacitor on the K2 manual in the control board build, entering the new value there and on the schematic.

Locate in the K2 manual where the bypass jumpers are installed in the procedure and also anotate and highlight these. When time to install jumpers in the RF board, instead, install the multi-pin female connectors for that option and all associate changes, such as the 5 dB attenuator mod for the

N/B upgrade.

Install the ATU options BEFORE the battery option. Install
the 160M/2nd RX before heat sinking the final transistors.

Battery option requires 2 pin header on RF board but is
easy to install so you can do that anytime.

Notable pains on retrofitting completed K2:

Having to remove the heat sink to install the ATU
RF pickup connector. 1 hour labor and fear of
breaking/scratching parts and case for a $0.29 part.
Be sure to install the two pin connector into the RF
board when other parts of that height are installed.

The 160M/RX should be done either at the same time
as the ATU RF pickup, or before completing the rig. It
is not difficult to install but requires the heatsink off to
solder in the mounting stand-off, desoldering bypass, and
installing the female connection strip.

Finally, I totally recommend if you have both the battery
option AND the ATU option, be certain to TAG or Color
code the Battery and ATU plugs, it is easy to get them
installed in the wrong connector, possibly causing
more rework than one wishes to ponder.

No time to fully review all this right now but it should be
good. Please remember, this is For your information
and that it is your responsibility to follow instructions
per the Elecraft procedures and incorporate this modified
building procedure at your own risk.

72/Ed we6w
--
72/Ed we6w; A-1 OP; SOC#63; QRPL#1068
http://www.qsl.net/we6w Santa Rosa, CA
Brain, only as strong as its weakest think.

Date: Sat, 1 Apr 2000 17:20:33 -0500
From: "Terres Family" <terresfm@ncia.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [67021] kester #104 flux solvent

Message-ID: <002101bf9c28$7fa04ce0$7082f3ce@computer>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

kester 104 flux solvent

hi
anyone know the makeup of this stuff? i've searched the kester site but
haven't found it. did come accross it somewhere, probably on a hazardous
materials sheet at some vendors site but can't find it again.
tia
72
jerry aa1of
franconia nh

Date: Sat, 1 Apr 2000 15:33:57 -0700 (MST)
From: "Paul Harden, NA5N" <na5n@rt66.com>
To: qrp-l@lehigh.edu
Subject: [67022] QRPTTF: 29APRIL, nothing else
Message-ID: <Pine.SUN.4.10.10004011459210.11159-100000@shell.rt66.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Gang,
Myself, and the NorCal Contest Manager, Jan N0QT, have received numerous
emails wanting to know the correct date for NorCal's QRP TO THE FIELD
(QRPTTF) Contest.

It is SATURDAY, APRIL 29TH, 2000 as first announced on QRP-L many months
ago, and the official rules posted a couple of weeks ago.

QST in their "Contest Corral" lists the wrong weekend, and lists lasts
year's "Run to the Border" theme. As the official rules were not
finalized until after the printing deadline, we had not submitted
anything, so evidently they defaulted on last year's rules. So please
make note that the date and rules are not correct (as even the ARRL has
acknowledged. Thanks Ed.)

This month's CQ magagine in the QRP column also has several errors.
It lists a contest called "Run to the Borders" as being sponsored by
NorCal (wrong, that was the THEME to last year's QRPTTF), then lists
QRPTTF as a contest in April sponsored by the Adventure Radio Society.
Wrong, QRPTTF is the official name of the NorCal contest, which again,

will be on April 29th, 2000.

It also lists the BUBBA Contest and QRP AFIELD as both being sponsored by ARCI. WRONG.

QRP AFIELD is what started all of these "to the field" themes by the NE QRP Club, and run the past two years by Dave Benson, NN1G. Unless ARCI has picked it up to run for 2000. If so, maybe someone from ARCI can clarify if they now sponsor this former NEQRP club event.

BUBBA (Burn yoUr Big B___ Away) contest was the brain-child and run by the Arizona ScQRPions, not ARCI.

I'm not really throwing rocks here, but there's alot of people who donate a lot of time, money and resources to sponsor these contests. The time to score the logs alone is a huge undertaking. And I think it only appropriate to credit the proper people for their efforts.

And it also seems that the major ham radio magazines have suddenly discovered QRPers as a group of "operating" hams as well. That's great. But they could do a little journalistic research to ensure they have the correct information. But I will also take my portion of the blame. Realizing the major ham radio magazines are now taking a sincere interest in QRP events, all of us who sponsor these things (myself included) should learn to make an attempt to inform these organizations well in advance of their publishing deadlines so the correct info is published.

I'm not blaming QST. They made a sincere effort to help promote QRPTTF and assumed the rules/dates were the same. Probably because they were unable to contact last years contest manager. The numerous errors in CQ magazine is bit mystifying, however.

72, Paul NA5N

 8 April - correct date for ARKIECON (Ft. Smith, AR)
29 April - correct date for NorCal's QRPTTF

I'll be at both.

Date: Sat, 1 Apr 2000 17:37:42 -0500
From: Barry J Minsky <w2bj@juno.com>
To: kh6b@juno.com
Cc: w2bj@juno.com, qrp-l@Lehigh.EDU
Subject: [67023] Re: PW-1 Antenna

Message-ID: <20000401.173954.-391539.0.w2bj@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

I do not believe they come with instructions. Mine didn't have them
either. It is pretty easy to put together. Mine has worked great.

On Sat, 01 Apr 2000 17:06:55 EST Dean W Manley <kh6b@juno.com> writes:
> Hi PW-1 group,
>
> My PW-1 came with NO instructions, documention,
> nor instruction sheet. Anyone receive them? Just
> wondering. No answer from my email to Vern.
> It came fast via priority mail, tho.
>
> Aloha,
> Dean KH6B HIQRPC #001
> Hilo Hawaii
>
> On Sat, 1 Apr 2000 16:40:37 -0500 Barry J Minsky <w2bj@juno.com>
> writes:
> >Hi Dan,
> >I have one and think it is great. It breaks down into sections
> that
> >are
> >12 inches long. He also sells a solid whip for mobile use. I have
>
> >used
> >it while on vacation and had many good QSOs. The one thing you
> need
> >is
> >some way of determining resonance. I have an MFJ antenna analyzer
> >which
> >works well.
> >
> >On Sat, 01 Apr 2000 11:42:01 -0600 Daniel R Case
> <drcase@iastate.edu>
> >writes:
> >> Greetings:
> >>
> >> I'm considering purchasing one of W6MMA's PW-1 Portable Antennas.
>
> >> It looks
> >> like a good antenna solution for apartment dwellers. Does
> anybody
> >> have any
> >> opinions or information on the performance of this antenna? Any

> >> comments
> >> or help would be greatly appreciated.
> >>
> >> 73!
> >> Dan KB0JUL
> >> Ames, Iowa
> >>
> >> drcase@iastate.edu
> >>
> >
> >72/73,
> >Barry J. Minsky, W2BJ
> >ARRL, QRP ARCI #8871, NorCal #1560, QRP-L #1543, FISTS #2701,
> Century
> >Club #569, Platinum #51, Silver #119, FISTS CW Club of Coastal
> >Georgia,
> >Knightlites, Adventure Radio Society #359,
> >Six Club #151, QCWA #29298, OOTC #3723, SOC #193

72/73,
Barry J. Minsky, W2BJ
ARRL, QRP ARCI #8871, NorCal #1560, QRP-L #1543, FISTS #2701, Century
Club #569, Platinum #51, Silver #119, FISTS CW Club of Coastal Georgia,
Knightlites, Adventure Radio Society #359,
Six Club #151, QCWA #29298, OOTC #3723, SOC #193

Date: Sat, 1 Apr 2000 17:39:29 EST
From: K4NK@aol.com
To: qrp-l@lehigh.edu
Subject: [67024] Items for sale
Message-ID: <ac.32df417.2617d4a1@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

  I have a few items for sale. I bought these over the last 6 or 8 months
thinking I would go crazy building. Well my new duties as a ARRL Vice
Director have kept me pretty busy. All items plus shipping.

Oak Hills "sprint" 80 meters...Good......$47.00
ZM-2 unbuilt kit $50.00
30 meter unbuilt micronaut kit.....$14.00
80 meter unbuilt micronaut kit.....$14.00
oner swr bridge kit unbuilt.....$20.00
80 mtr and 20 mtr vectronics receivers
with cases .....each.$15.00

Lafayette HE-30 receiver very good
with manual.....$50.00 heavy

  please email direct !!!

             Les K4NK

Date: Sat, 01 Apr 2000 15:00:57 PST
From: "laura halliday" <marsgal42@hotmail.com>
To: qrp-l@lehigh.edu
Subject: [67025] Re: T2R2 on a chip
Message-ID: <20000401230057.24593.qmail@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

Bll N1NIK asked:

>Has anyone seen or touched the new chip AD6523/4 from
>Analog Devices? The chip is designed for use in the GSM
>cell phone service; and looks just like the block diagram
>of the T2R2. Is it possible to run a device of this type
>in the HF band.

When it ships (it isn't shipping yet, as nearly as I could
tell at www.analog.com), why not get one and see what you
can come up with?

I/Q baseband followed by DSP is currently very fashionable
in professional circles. It's simple (thus cheap) and can,
in theory, demodulate anything.

Laura Halliday VA3LDH   "Que les nuages soient notre
Grid: FN03gs   pied a terre..."
                                    - Hospital/Shafte

____
Get Your Private, Free Email at http://www.hotmail.com

Date: Sat, 01 Apr 2000 15:09:54 -0800
From: Eric Swartz WA6HHQ - Elecraft <eric@elecraft.com>
To: EleCraft mail list <elecraft@qth.net>, QRP-L <qrp-l@lehigh.edu>

Subject: [67026] New Elecraft EC2 Enclosure Pictures
Message-ID: <38E681C2.DE00F6A2@elecraft.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

We have placed new pictures of our EC2 project enclosure on the
Elecraft web site at: http://www.elecraft.com/EC2.htm

72, Eric WA6HHQ
--
http://www.elecraft.com

Date: Sat, 01 Apr 2000 18:29:07 EST
From: n5ib@juno.com
To: qrp-l@Lehigh.edu
Subject: [67027] CONTEST: Postal Surprise
Message-ID: <20000401.171928.4663.1.N5IB@juno.com>

Much to my surprise and pleasure, there comes the postman with a large
"DO NOT BEND" envelope.

Its a certificate for First Place in Louisiana in the Fall QRP-ARCI QSO
Party. OK, OK, so I was probably the <only> LA station in the event, but
bragging rights established here in Cajunland nonetheless.

Thanks ARCI gang! - super contest - really neat certificate - see
you all in the Spring 'test next weekend. I even have an ARCI number now,
so I'm worth more to you lads and lassies. Lets see if I can conjure up
some Cajun MeauxJeaux with the DSW's, GM15, NW20, and HTX-10.

72
Jim N5IB

____
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http://dl.www.juno.com/get/tagj.

Date: Sat, 1 Apr 2000 16:50:28 -0700
From: "Rod, N0RC" <n0rc@qsl.net>
To: <w2bj@juno.com>, "qrp-l" <qrp-l@Lehigh.EDU>

Subject: [67028] Re: PW-1 Antenna
Message-ID: <017b01bf9c35$c0666900$bb101004@compaq>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Folks:

----- Original Message -----
From: Barry J Minsky <w2bj@juno.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Sent: Saturday, April 01, 2000 2:40 PM
Subject: Re: PW-1 Antenna

> Hi Dan,
...
> it while on vacation and had many good QSOs. The one thing you need
is
> some way of determining resonance. I have an MFJ antenna analyzer
which
> works well.
...

OR (as I did) you can use your ears and an SWR meter and/or WM-1/2.

I found that if you move the "top hat" section up and down the coil; you can find a noise peak in your RX pretty fast. Then adjust up and down one or two windings, each time check SWR with 1 or 2 watts. Slow but it worked. Don't forget to mark the coil somehow for each band so you can adjust it quickly, when you change bands.

I do like the MFJ method better, but mine is back at MFJ for calibration.

A real sweet setup is the K2, KAT2, PW-1. I took my PW-1 to a friend's house, he has his K2 KAT2 done. We set every thing up on my mark; that got use 1.5-2:1. Then just punch the button on the KAT2--BOOMPH 1.1:1.

72/3 Rod, N0RC -- Fort Collins, CO

End of QRP-L Digest 1778

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